

New Trail

UNIVERSITY OF ALBERTA ALUMNI ASSOCIATION

WINTER '86

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In Pursuit of
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Your generosity has made a real impact on the University. Many library materials have been purchased; the gates for the Japanese Garden will be in place early next year; and the final planning process for the Collections Centre is underway. Gifts to specific projects all around the campus have contributed to the enhancement of learning at the University. Undesignated gifts have been used to support special opportunities not covered by existing budgets.

Myer Horowitz, University President, and Eric Geddes, Chairman of the 75th Anniversary Appeal, join in thanking all alumni who helped to make the Appeal a success.

Myer Horowitz, President
University of Alberta

Eric A. Geddes, Chairman
75th Anniversary Appeal

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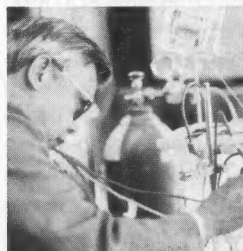
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He's climbed mountains and set foot on the North Pole in search of artistic inspiration. He's done pioneering research into the effects of color, and he's won international acclaim for his art. Now Harry Wohlfarth is adjusting to his new status as professor emeritus.



16 Ancient Wisdom Meets High Tech

Working in co-operation with scientists from the People's Republic of China, Dr. Peter Pang and his associates are employing modern high technology to learn more about ancient herbs whose curative properties have been demonstrated by centuries of experience.

23 Questions of Knowledge

For Renée Elio, research in the broad area of artificial intelligence is intimately connected with the way humans deal with knowledge. Because she wants to be able to make smarter machines, she is interested in how prior knowledge helps us learn.



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Cover

For many years, Western medical science has largely ignored the cures of traditional folk medicine. Now there is an awakening interest in the ancient ways, and at the University of Alberta, the high technology of the medical laboratory is being employed in investigations of Chinese herbs used in the treatment of hypertension.

Memories

Of Alberta and Arabia

by C.D. Pine, '41 BA, '42 Dip(Ed)

Corwin Pine has now returned to Calgary, where he is semi-retired. The following article was prepared in the fall of 1985, when he was still living in Dubai, on the shore of the Persian Gulf.

VIRGINIA MACKAY'S "MEMORIES" article in the *New Trail* Spring '85 issue reminded me that I have also preserved several dance programs from a slightly earlier era at the U of A (1939-42). Those formals were quite something for us boys too, Virginia. Many strategies were employed to get a program filled in before the event with whatever campus beauties your friends happened to be dating.

And was Con Hall really as glamorous as it seemed then? Or the Corona Hotel? Or the Mac? How about those Saturday night dances in the Athabasca gym with Chet Lambertson's orchestra and its irreplaceable Coward signature tune?

The great varsity song that Lambertson composed after "ringing out a cheer for our Alberta," goes on to suggest that "our memories will live forever." So, what else do I recall from those days long past?

Places: The Tuck Shop opposite St. Steve's. What atmosphere. . . And Little Tuck in the basement of St. Joe's. Even greater ambience. . . Then there was the American Dairy Lunch overtown. Lots of bull sessions there. . .

And theatres. The Rialto, Dreamland, the old Princess on Whyte. The Garneau had just opened. . . Tamblyn's Drug Store on the corner of 82nd, opposite the Varscona. . .

Times: Dick MacDonald just getting CKUA started in that tiny studio back of the Arts Building. . . Gathering in various residence rooms for that obligatory Saturday afternoon jazz concert on local radio, with its great theme song, Glen Gray's "Memories of You" . . . Those traditional Gilbert and Sullivan operettas every spring (and their road tours to Calgary!). A ready tenor in the chorus, I admired the histrionics and fine singing of Roger Flumerfelt, Marg Hutton (was there ever a better Yum Yum?), Gilbert Blackstock, Trudy Carlyle, and many others. . . Riding that swaying streetcar across the High Level. Always an adventure. . . Walking back from the North Side on a winter's night with clean, fresh snow underfoot and a million stars overhead. . .

Professors: MacEachern. Classes not exactly exciting. However, his firm belief that Philosophy was anything but esoteric gradually and subtly took hold. . . Hardy. Flamboyant Classics teacher, sportsman and best-selling historical novelist. He turned many of us on to John O'Hara by categorically stating that *Appointment in Samarra* was a landmark in American literature. (Maybe not quite that good, Doctor?). . . Lazerte. Brilliant, opinionated, irascible. Impossible to imagine anybody else who could have so successfully made the School of Education into a faculty in the early '40s. . . Herb Smith. The wonderful teacher and administrator who became an even more popular dean of education than Lazerte, and my esteemed father-in-law. . . "Casey" Jones. A fine drama teacher who went on to encourage the young Frances Hyland in Saskatoon. . . Salter. The legendary English teacher who inspired so many. His advice to Bill Mitchell, "Write what you know!", has made W.O. probably Canada's best regional author. My own essay on Lear in Dr. Salter's Shakespeare course helped me win the Hosford Memorial.

Movies: A film buff from the late '20s, I wrote an intermittent column of

reviews for *The Gateway* called "Cinema Synopsis", which was quite well received on campus. I am most proud of my immediate recognition that *Citizen Kane* was a masterpiece, when first released in 1941 over fierce opposition from the Hearst Press. Welles' classic picture had an initial run in Edmonton of only two or three days. Hardly anybody saw it, but my laudatory review at least got me on the bandwagon from the beginning. . . I also recall praising John Ford's melding of three Eugene O'Neill one-act plays into *The Long Voyage Home*.

AND WHAT HAVE I DONE WITH LIFE AFTER University? Well, nothing that I expected, or that was expected of me.

After four years with Army Personnel Selection in Montreal, England, and on the Continent, I returned to Calgary and drifted into accounting. Following some 15 years in the car business, I was fortunate enough to switch to the oil and gas industry just when Rainbow, the first northern pipeline, was getting underway.

In the middle '60s, I had two tours in Oman as an office administrator during construction of the first pipeline out of the desert to the sea near Muscat. Oman was so primitive then it was almost biblical. A new sultan has changed all that in just 20 years using his oil revenues to build a progressive, cosmopolitan country.

The United Arab Emirates, in the same area, have done the same following discovery and exploitation of oil and gas fields, primarily off shore in the Arabian Gulf.

I have been in the Emirates myself for the past two years as an accountant with the Dubai National Gas Company. This is a very major operation: buying gas by underwater pipeline from several platforms in the Gulf, then processing it onshore for local utility and industrial use and also for sale internationally, mainly at present to the Japanese.

Our offices and plant are about half-an-hour's drive from Dubai, in the immense Jebel Ali area (the biggest man-made port in the world, with 67 berths for container, tanker and general cargo shipments). Dubai itself has two

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The 1939 Junior Prom featured an Arabian theme—shades of things to come for Corwin Pine.

large additional ports and huge dry docks. Its world-famous "Creek", a wide inlet from the Gulf, divides the city in two, much as the North Saskatchewan divides Edmonton.

It is a place of great contrasts: business, financial, hotel and shopping facilities equal to any in the world, right alongside expanses of undeveloped desert and native housing and markets out of another century. There is water everywhere (much of it from a large desalination plant in Jebel Ali): fountains at street intersections, waterfalls in the lobbies of the luxury hotels, swimming pools all over. Plus trees, flowers, lawns and parks, all meticulously maintained. An atmosphere quite out of this world.

Most of the infrastructure is in place (roads, bridges, utilities, communications), but there is constant upkeep and many improvements still needed. The Iran-Iraq War is just something a few hundred miles away on the northern side of the Gulf. Considerable effect on the local economy, yes — Dubai is traditionally a great trading centre, and much of its trade with Iran in particular is severely curtailed — but no hostilities here or likely to be.

There are six other Emirates, each with a capital city bearing the same name as the Emirate. They are not necessarily small. Abu Dhabi, the largest, covers some 80,000 square kilometres.

Each has one or more ultra-modern, five-star hotels (eight in Dubai alone), with decor, cuisine and service unbelievable unless you have experienced them. For instance, one entire wall of the Ramada's atrium lobby consists of what they claim is the tallest stained glass window anywhere. True or not, it is something to see. Even more impressive is the view of the city and the Gulf from the revolving restaurant on the 25th floor of the Hyatt Regency. Quite unforgettable.

The Emirates have no income tax, but all major industries are owned outright by the various royal families. There is a five per cent municipality tax on hotel accommodation and all restaurant meals and 30 per cent on top of the retail prices in liquor stores. Only expatriates can purchase booze. Except for the ubiquitous Canadian Club, rye is conspicuous by its absence, but nearly any other kind of hard liquor or wine is available. Beer is mostly English or European. Gold, jewellery, cameras, watches, radios, VCRs, TVs, rugs, furniture, clothing, all are obtainable at dozens of stores, large and small, from multi-storey shopping centres to old-style Arab souks.

Highways are superb and swarming with Mercedes and BMWs. Toyotas are prolific too, well-suited to the climate. On weekends many people drive through the rugged Hajar Mountains to the west coast resorts of Fujairah and Khorfakkan on the Indian Ocean. Both these cities have more extensive

port facilities. The Emirate's population is probably 70 per cent expatriate, mostly Indian, Pakistani, and Filipino, with a sprinkling of British, Europeans, Americans, and maybe 300-500 Canadians. Arab nationals make up the other 30 per cent.

The months of June to September are very hot (up to 45 degrees Celsius during the middle of the day), but the rest of the year has very pleasant weather. No overcoats certainly, but from December to February a good sweater is welcome at nights.

Every sport imaginable is available in Dubai: swimming, sailing, water-skiing, tennis (very popular), badminton, squash, racquetball, golf (entirely on sand!), go-kart racing, horse racing, camel racing (hilarious), a world-class dressage event (Princess Anne and her husband competed last year — she is highly regarded all through the East), bowling, darts, chess (the world junior championship has just finished), soccer, football, cricket, ice skating. . . You name it.

Entertainment? Good radio and television stations. Two-channel in-house movies in all hotels and apartment complexes. Concerts by international stars like Tina Turner, Dionne Warwick, Eartha Kitt, Shirley Bassey (exceptional!). A Metropolitan Opera touring company every fall. Dinner theatre, with current hits from London's West End showcasing top-level British theatre and film luminaries. Fashion shows by leading U.K. and European designers. Ethnic packages from Thailand, Turkey, Japan, the Philippines. . . Plus outstanding resident orchestras and lounge acts.

Any visitor would be impressed by the Emirates' affluence, their splendid schools and hospitals, enlightened social programs, modern cities, bleak and beautiful mountains, historical sites, miles of gorgeous beaches, four international airports, and the variety of cultures, languages, dress and customs.

Certainly that small-town boy filling out his dance programs so long ago could not possibly have guessed that in the next 45 years he would be privileged to see so much of the exotic, wonderful world. <

Campus Reporter

Dental, General Health Examined

KELLOGG SALADA (CANADA) INC. AND the Dairy Bureau of Canada have given a grant in excess of \$200,000 to the University for dental, medical and nutritional research studies of older people living in Alberta.

The grant will be co-ordinated by Tony Hargreaves, Faculty of Dentistry, in association with Gordon Thompson, dean of Dentistry; Elizabeth Donald, Home Economics; and Tom Overton, Medicine.

The money will be used for a unique project looking at dental and general health. Specifically, it will see if oral health affects dietary choice and if diet contributes to dental disease. It will also assess diet and nutrition of older people, with emphasis on a number of key nutrients.

The project will also interrelate the dental and nutritional findings with bone loss. Osteoporosis (the loss of calcium from bones) causes a great deal of human suffering and is expensive to treat. Research techniques and tech-

nology developed at the University by Dr. Overton's bone research group are to be employed to provide the critical measurements of bone loss.

The Dairy Bureau has allocated \$150,000 of the total grant for the bone density studies directed by Dr. Overton. Kellogg Salada has given the balance of the money for the dental, nutritional, and other medical studies.

Deafness Chair Almost Funded

AN ENDOWED CHAIR OF DEAFNESS WILL soon be a reality at the University, now that funding is nearly in place.

For the past two years, a number of people from the University and the wider community have been working hard to raise the \$1,220,000 needed to endow the chair. While all the money is not yet in the bank, a commitment of \$100,000 from the Minerva Foundation of Edmonton has assured that it soon will be.

The donation from the Minerva Foundation, which fosters personal and family growth in the community,

brings the total amount committed to the chair to less than \$10,000 short of the critical amount, and those involved in fund raising for the chair are confident that the remainder will be in place soon.

At a celebration held on campus to mark the "almost" attainment of the necessary funds, Bill Payne, the fund raising campaign leader and the son of deaf parents, said that he had long wanted to do "something worthwhile and substantive" in the area of deafness research. Mr. Payne, the MLA for Calgary Fish Creek, had particular praise for the efforts of Educational Psychology Professor Michael Rodda, who had been involved with the project from its inception, and his colleagues for the impetus they had given the project.

The Chair of Deafness Studies will spearhead research, teaching and outreach programs related to the social and psychological problems associated with hearing impairment.

Besides the Minerva Foundation, other donors to the fund-raising campaign, which began with a challenge grant of \$500,000 from the federal

AROUND AND ABOUT

THE ALBERTA HERITAGE FOUNDATION FOR Medical Research Building is currently under construction on campus. Sod-turning ceremonies were held in July and the \$18-million structure is expected to be completed early in 1988. The building site is south of 87 Avenue between 112 and 114 Streets.

AT ITS SEPTEMBER MEETING THE UNIVERSITY'S Board of Governors welcomed five new members: Chancellor Tevie Miller; GFC Representative Gouri Gourishankar; and Mary Lobay, Jake Superstein, and Michael Welsh, appointed from the public by the minister of advanced education.

AN ENVIRONMENT SUIT DESIGNED BY FIVE U OF A engineering students won the Special Award for Technical Excellence in Entrepreneurial Design at this summer's National Canadian Engineering Competition. Their Micro-E suit contains a built-in power pack for heating or cooling in harsh climates.

LECH OZIMEK, A NATIVE OF POLAND WHO FIRST came to the U of A in 1982 as a visiting scientist, has been appointed to the new Chair of Dairy Processing Technology Research established with joint funding from the Alberta Dairymen's Association, Alberta Agriculture and the University.

TWO MECHANICAL ENGINEERING PROFESSORS have garnered honors recently. Fernand Ellyin received the 1986 Robert W. Angus Medal of the Canadian Society of Mechanical Engineering for the year's best paper in the field. Don Bellow was named an honorary life member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

ON SEPTEMBER 24, ST. JOSEPH'S COLLEGE HELD a special ceremony for the blessing of 11 stained glass windows installed in its chapel as part of the College's 60th anniversary celebrations. Financed by various donors, the windows cost \$7,000 each installed.

MARTINE JAWORSKI, WHO HOLDS JOINT appointments with the department of pediatrics and the Muttart Diabetes

Research and Training Centre, has been invited to contribute to the U.S. National Diabetes Advisory Board's long-range planning for diabetes research.

AN INNOVATIVE CHEMICAL RECLAMATION program begun at the University just over a year ago has resulted in the redistribution of about 4,000 containers of chemicals from labs where they were surplus to researchers who had need for them. Bought new, these chemicals would have cost more than \$150,000.

LINDA HARRIS, AN MSc CANDIDATE IN THE department of food science, won the Graduate Student Award of the Canadian Institute of Food Science this year—the sixth U of A student to do so in the 11-year history of the award.

THE GOVERNMENT OF CANADA IS PROVIDING \$495,000 to help the University continue its support for the development of a graduate education program in civil engineering at the Pontifica Universidade Catolica in Rio de Janeiro. The money comes through a Canadian International Development Agency program.

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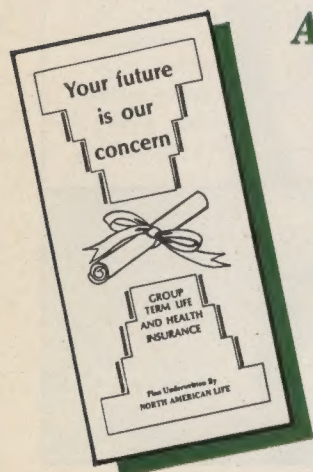
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THE COLORFUL HARRY WOHLFARTH

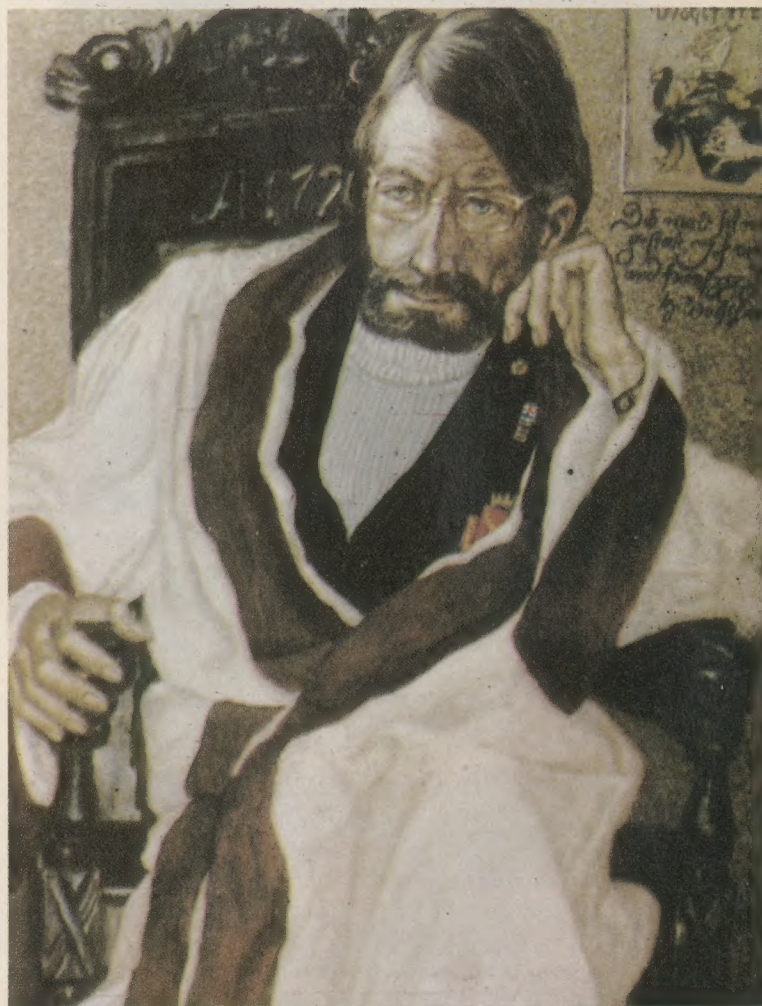
**GREY: FOR A MILLION MILES BY
GREYHOUND BUS.**

Harry Wohlfarth recalls the turn of chance that brought him to Edmonton: "It was a choice between Santiago in Chile and Edmonton. I was for Santiago because my Spanish was better, and I liked the warm climate better. My ex-wife liked the cold better. 'Okay,' I said, 'there is only way to resolve this.' I took a matchbox and wrote 'Canada' on one side, 'Chile' on the other, flung it up into the air, and it came down 'Canada.' So I said, 'All right, Canada it is.'"

A German native, Wohlfarth had been pressed into service in that country's alpine corps during the Second World War, and was eager to distance himself from the squabbling and power-seeking that so regularly forced guns into the hands of European citizens. "After five generations of Wohlfarths either having their bones shot to pieces or being shot dead in those ridiculous wars, I said, 'My son is not going to ever wear a uniform if I can help it.'"

Now a University of Alberta professor who enjoys an international reputation as an artist and color scientist, Harry Wohlfarth was one of those Wohlfarths whose bones were "shot to pieces." He was injured in action four times—his left elbow still suffers from the damage inflicted by Russian machine gun fire—before the cessation of hostilities allowed him the peace to pursue his studies in art. After the War, he attended the art academy at Dresden and later went on to postgraduate studies under German expressionist Oskar Kokoschka in Salzburg. Then, prompted by political movements to remilitarize Germany, he decided to leave Europe. And he flung his matchbox into the air.

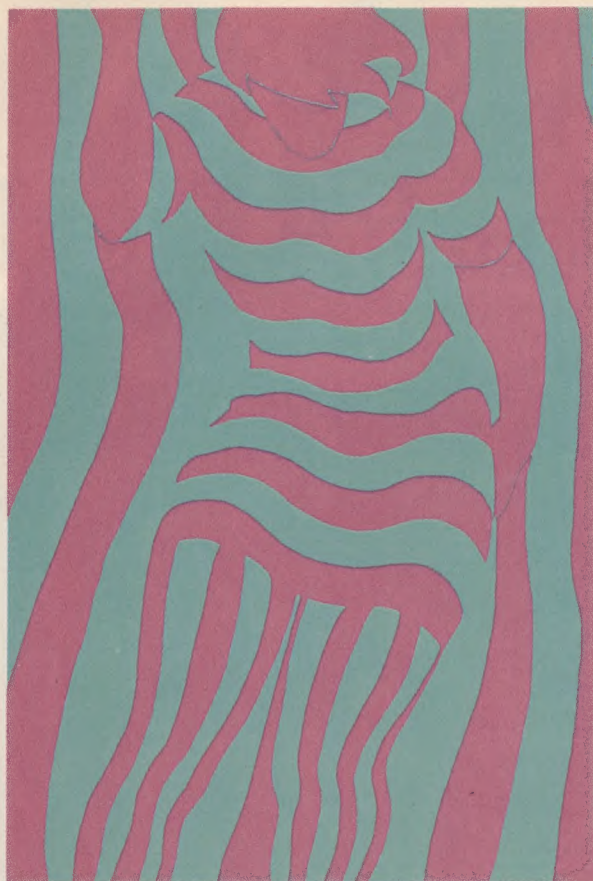
That was 33 years ago and Wohlfarth, who came to Edmonton to accept a position as a lecturer in the University's department of extension (now a faculty) is today enjoying his new status of professor emeritus of art, having retired from full-time duties in the extension faculty at the end of August. Looking back over more than three decades of teaching art in Alberta, he is able to point with pride to having never missed a single class and to having travelled the length and breadth of the Province, conducting art classes, judging art shows, and in other ways encouraging development of visual art and artists in Alberta. And being a confirmed non-car-owner, he did it all by bus: "one million miles on Greyhound, which saved the taxpayer at least \$60,000 as compared to charging mileage—and kept me alive over one million miles of Alberta roads in winter," he says.



In this self-portrait, Wohlfarth takes a tongue-in-cheek look at Convocation

Wohlfarth and the Extension Faculty played a prominent role in establishing art classes and art schools throughout the Province on a scale which he describes as having "nothing equal anywhere in Canada, the States, or for that matter, anywhere else in the world." The structure so carefully set in place has proven durable. Says Professor Wohlfarth: "This network of classes based on clubs is still alive in the Alberta Community Art Classes Association, a society registered with the government and carrying on the tradition, working in close co-operation with the Faculty of Extension."

Wohlfarth's contributions to art education in Alberta are



HARRY WOHLFARTH

Major Honors and Awards

Doctoris Acadamiae Roman Academy of Arts and Sciences; 1961.

Gold Medal Tiberian Academy, Rome; 1970.

Achievement Award Government of Alberta; 1970.

Cross Italian Legion of Honor, Rome; 1971.

Gold Medal International Academy of Letters, Arts and Sciences, Rome; 1971.

Achievement Award Government of Alberta; 1972.

Achievement Award Government of Alberta; 1972.

Honorary Life Membership German Academy of Color Sciences, Bonn, 1978.

Luigi Prete Prize and Gold Medal International Burckhardt Academy, Rome; 1978.

Renaissance Prize and Gold Medal International Burckhardt Academy, Rome; 1979.

Luigi Prete Prize and Gold Medal International Burckhardt Academy, Rome; 1980.

First Prize Twenty-third International Watercolor Exhibition, Rome; 1983.

Creative Arts Achievement Award City of Edmonton; 1984.

Wohlforth's high frequency color kinetic go-go girls captured the energy of the '60s.

remarkable enough in themselves; they are even more so when one considers that at the same time he was able to establish an international reputation as an artist, make important contributions to the understanding of early Renaissance painting, and conduct pioneering research to give an empirical basis to the study of color psychodynamics.

GOLD: FOR HIS CONTRIBUTIONS TO ART.

Blessed with a photographic memory, Wohlforth is able to vividly recall his birth as an artist. Perhaps the hand of fate that would one day guide the matchbox flung into the air was already at work, for his first work pointed to this continent. "It was the profile portrait of a North American Indian. I had never seen an Indian in my life, but from what I remember, it was quite correct, except for the chin, which was a European chin rather than an Indian chin. I even had the feather going down not, as you might expect from a four-year-old, sticking up."

In the early 1960s, Professor Wohlforth's art was catapulted into the international arena with his discovery of "high frequency color kinetics". The discovery had its genesis in a chance observation, recalls the professor "In the studio, suddenly I saw two colors almost physically move." He soon decided to take a half-year leave of absence to go to Mexico to fully explore the phenomenon, choosing Mexico because of an interest in that country's tradition of mural painting, and he studied there under Pinto, who had closely collaborated with Sigüenza on some of the famous Mexican murals. Wohlforth's investigations of the moving-color phenomenon resulted in a 90-page thesis entitled

Principles and Functions of Kinetics and High Frequency Color Kinetics. He also produced a thesis exhibition based on the principles he had elucidated.

Wohlforth has described the color kinetic effect as being "like an atomic chain reaction." It is derived from the after-image created by bright colors—look at a bright red object for a few seconds, transfer your gaze to a blank white space and you will see a green after image of the red object (green being the complementary color of red). By careful choice and positioning of colors, Wohlforth was able to exploit this phenomenon to the point where adjacent colors, reinforcing each other over and over again, would become so vivid that they would appear to actually move.

He explored this at-times-brutal effect in a series of paintings depicting the human female form using simple, hard-edge shapes without apparent dimension or depth. (Appropriately enough, the first canvasses featured go-go girls.) This work, so reflective of the times, captured wide attention. In the introduction to a one-man Wohlforth exhibition in Rome in 1970, Professor E.W. Kemp of the University of Alberta expressed his view that high-frequency color kinetic expressionism was "an iconological form expressive of our way of life and its de-personalizing effects."

The 1970 Rome exhibition was sponsored by the Tiberian Academy of Rome (the former Royal Italian Academy) which that year presented its Great Gold Medal to Harry Wohlforth "for outstanding achievements in the field of fine arts." He was only the fifth person to receive the gold medal in that field in the 150-year history of the *Accademia Tiberina*. That recognition was only the first of

many honors—and six gold medals—that he would receive in Rome.

Six years ago, Wohlfarth received an honor of another sort: he was the first modern North American artist to have his works shown in Moscow. Thirty of his paintings—20 featuring old Moscow scenes and contemporary cityscapes of the Soviet capital and 10 Canadian prairie landscapes—were shown at the Moscow State Gallery in a July exhibition opened on Canada Day, 1980.

Cityscapes are a particular interest of Wohlfarth's but people have been the major inspiration for his art, he says, describing the human female figure as the "central pillar of my artistic work and my artistic interest." Even the attraction cities have for him relates to the human character they evoke. "Cities, like people, are very individual characters. Each one is different. No two are really alike," he says.

Wohlfarth has also turned his brush to landscapes, and while he is best known as a painter, he is also an accomplished sculptor. In fact, Edmontonians have probably encountered Wohlfarth most often through his sculptures: a pioneer of heroic proportions is installed at the Provincial Museum, a gift to the people of Alberta from the German-Canadian Association of Alberta; a boy astride a horse is placed in the Shector Lobby of the Citadel Theatre; and his bust of Chopin is a familiar sight in the lobby of the Northern Alberta Jubilee Auditorium. Another of his commissioned works is a portrait of the Honourable O.L. (Tony) Macpherson, former Alberta speaker of the house, which hangs in the Legislative Building, Edmonton.

WHITE: FOR PLACES WHERE FEW MEN HAVE VENTURED.

On April 14, 1985, Harry Wohlfarth, age 63, set foot on the geographic North Pole. The temperature with windchill was -94 degrees Celsius. To mark the achievement, the professor of extension planted his ice axe in the frost. To it were attached the flags of Canada, Alberta, West Germany, and the University of Alberta. He also sipped French champagne in a toast to success. "It feels great to stand on top of the world!" say his notes on the expedition. "Great" is underlined.

Wohlfarth was part of a nine-person expedition that was successful in making a "daredevil" landing at the Pole using a Twin Otter aircraft. His notes tell of the danger: "A Twin Otter needs 52 inches of ice thickness to make a safe landing. . . The pilots try to judge the ice by color. Brown ice means safe. Green or blue ice is judged too thin. However it really is not until you land, when you actually find out. . ."

Indeed, his group's first attempt at a polar landing had to be aborted. "We landed with a terrific thump. The ice had broken. The plane pulled up just in time.

It was not the first time that Wohlfarth had courted danger in search of artistic inspiration. In 1967 as a personal Centennial project he climbed a peak in the Rockies and was pleased to discover that his injured elbow did not seriously impede him. Since then he has climbed mountains in Africa and Asia as well as in North America and Europe. In 1982 he scaled two peaks in the vicinity of Everest, missing a third when he developed pneumonia at 5,583 metres.

For Wohlfarth the artist, the Himalayan and North Pole

adventures revealed "the serenity and almost cruel grandeur and magnificence of some parts of our planet which not too many people are privileged to experience." However, he puts himself in the path of danger not only for artistic inspiration but also to test himself. (Although that may very well be but another window to the reality which he transfigures in his art.) Wohlfarth explains his penchant for danger as "a desire to find out, a desire to see how far your limits can be stretched to overcome your own fears and weaknesses. . . a way to be brutally honest with yourself as often as you can. On a mountain—or on an expedition—your real character comes out blatantly. There is no hiding, because under those exaggerated circumstances all pretense falls off and the raw you is there—not only for you to see, but also for everybody else who is around you. This is sometimes frightening, it is very often sobering, but I think it is in general very healthy."

Healthy it well may be, but it is, after all, dangerous, and Harry Wohlfarth will not be climbing any mountains in the near future. This past summer, extensive pulmonary investigations revealed that he froze part of his lungs on the North Pole expedition. His doctors are hopeful that some of the damaged tissue will be regenerated in a few years, but until then he will continue to have difficulty breathing—especially uphill. "As far as climbing is concerned, I'm completely grounded," he laments.

RED: FOR THE SELF-ASSUREDNESS OF HIS MATURE YEARS.

Red is the color Wohlfarth associates with himself these days. According to the theories of Swiss color psychologist Max Lüscher, the "red" person is self-confident and lively. Not, however, as lively as the "yellow" person, the real go-go individual on the color spectrum.

Yellow used to be the color he favored, says Wohlfarth. With reference to the work of Lüscher, he speculates that the change likely coincides with the advent of his later years. "In my 30s and 40s I probably was relatively active and aggressive. Those are usually the years in which you try to prove yourself—until finally you manage to do it, at which time you become quite sure of yourself. With the change in your character—which is not such a fundamental change—a change in color preference might coincide."

Wohlfarth's entry into the realm of empirical science is intimately tied to the color theories of Lüscher, a professor at the University of Lucerne and the developer of the now-famous Lüscher Color Personality Test. In 1952, Wohlfarth came across Lüscher's work on the psychology of color and was impressed. "I said 'Marvellous. . . for the first time somebody really did a scholarly piece of work on color.' However, I still thought that you can't really go around and say that red, green, blue, yellow has this and that effect on people without having hard facts and figures to prove it."

Once settled in Alberta, Wohlfarth devoted himself to providing such facts and figures. And "devoted" is not too strong a word. In the course of his experiments he even went so far as to subject himself to 177 blisters to investigate the effect of color on healing. He found that concentrating on yellow seemed to speed healing the most. The results were suggestive but not conclusive because there weren't enough of them. But for Wohlfarth 177 blisters were

plenty.

Less painful research involved nearly 200 volunteers who stared for five minutes at a colored card calibrated using a standard color scale. Before and twice after, various measurements of pulse, blood pressure and respiration were made. To counter external stimuli, the subjects used gloves and earplugs. Based on this and similar research, Wohlfarth was able to show that there is indeed an effect of color on the autonomic nerve system, and this was both measurable and predictable. Red, orange and yellow stimulated the autonomic nerve system in the order of red (minimum), orange (medium) and yellow (maximum). A depressive effect was found in the sequence of green (minimum), blue (medium), and black (maximum).

For the first time (1955), the effect of color on humans—much speculated about in psychology, literature and myth—was empirically demonstrated. ("I must say that wherever I have had a chance to look for experimental verification, Lüscher has been right so far," says Wohlfarth.)

The next step was to put the knowledge about the effects of color to practical use, and Wohlfarth has done so with interesting results. Over the years, he has put theory into practice many times. He has color designed a dental clinic, several juvenile correctional institution complexes, and a private school for dependent handicapped children. In each case the results have been well worth the effort.

Particularly spectacular were the results at the school for handicapped children, Elves Memorial Child Development Centre in Edmonton. When a room was repainted to fit a prescribed and carefully co-ordinated color scheme, the children's aggressive behavior decreased and diastolic blood pressure went down. When the room was returned to the original colors, the effects disappeared.

Perhaps the most unexpected result at Elves was the fact that the blind children exhibited the same physiological reactions as the other students. Not so startling, says Professor Wohlfarth, citing the innovative work done by A.S. Novomeysky of the U.S.S.R. According to the Soviet scientist, every visible color seems to have an invisible double in a distant infra-red field, and these invisible radiations, perceived by dermo-optic receptors, cause a variety of sensations effecting not only biological processes but mental and motor activity as well. Professor Wohlfarth holds that

the relationship between wave length and color explain the "blind student phenomenon."

Wohlfarth's work at Elves led to a major (\$500,000) study sponsored by Alberta Education which involved four schools in Wetaskiwin, Alberta. One school had standard lighting and a traditional color scheme, another had lighting and paint color co-ordinated psychodynamically, a third had changes to lighting only (changed to full-spectrum fluorescent), and the fourth had changes to color only.

For one year the 700 students attending the four schools underwent an extensive series of tests to monitor changes in a variety of realms: IQ, academic performance, blood pressure, noise, illness, mood, aggression, and even dental health.

The project results have recently been published. The most statistically significant findings point to the benefits of the improved lighting—including fewer absences and a reduction in dental caries. Wohlfarth also found trends which supported his belief in the influential power of color. He says that at the two "color" schools, students tended to be less disruptive, more academically productive and absent less often. He even found some indication of possible IQ improvement.

"There are far-reaching implications to the work that we are doing," he says. "We may well have found a very low-cost tool that can have a tremendously positive influence on children's learning."

BLUE: FOR THE ALBERTA SKY.

He is the president of the International Academy of Color Sciences, based in Berlin, a consulting staff member of the Institute for Psychobiological Studies at California State University, and a frequent lecturer in a variety of countries, but Wohlfarth is content to remain in Edmonton, where chance brought him those 30-odd years ago.

"Whenever people ask me which cities I like best, I usually say Venice, Rome, London and Edmonton—which of course gets a laugh. But it's the climate: I love the sun. I couldn't stand even a decent climate somewhere where it was always overcast. I would rather get my ass nipped in sunshine. Here, even when it's -20 or -30 and you see a blue sky, it's not so bad."◁

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What are you doing now?

*Use the space below to let us and, through us,
your friends know what you are doing now.*

Quest Connections

WHEN TOM NELSON WAS CHAIRMAN OF the University's department of psychology, a wide variety of requests for assistance in matters psychological would cross his desk. Where it seemed that his department could help, he would direct the request to the faculty member best equipped to provide the assistance.

In 1985, one call for help which particularly caught his eye and to which he himself responded came from an Edmontonian with an idea for a board game.

Inspired by the spectacular success of *Trivial Pursuit*, Lowell Haynes had plans for a game that would combine an intellectual challenge (not based on trivia) with an element of strategy and a sense of adventure à la the cinema escapades of Indiana Jones in *Raiders of the Lost Ark*.

That game, *Quest of the Philosopher's Stone*, is now on store shelves, shaped not only by Haynes's vision and Dr. Nelson's expertise, but also by the contributions of another member of the University community, Lyle Weis of the department of English. *Quest* is being aggressively marketed in both the Canada and the U.S. and is meeting with a positive response from the game-buying public—the initial run of 5,000 games soon sold out.

Dr. Nelson, now returned to full-time teaching duties, recalls being intrigued by the "novel cognitive content" that Mr. Haynes was proposing for his game when the inventor first approached the psychology department. Having published on games, evaluated games, and even invented some games (games teaching safety, courtesy, and so on, for use in specialized settings such as nursing homes and juvenile rehabilitation centres), Dr. Nelson was well-equipped to help.

However, he recalls that what Haynes wanted done was "un-do-able." What the inventor was asking for was IQ test questions. Not only were there ethical problems with that, says Dr. Nelson, there was the practical problem that intelligence tests are very specialized measuring devices—taken



out of that context, the individual questions would not work in the way Haynes desired.

"I saw what was needed was a new category of problems," says the psychology professor. He agreed to take on the challenge and eventually created about 25 novel varieties of brain-teasers, taking pains to ensure not only authenticity, but a relation to the game, and sufficient diversity to ensure that no one individual was likely to excel (or do poorly) in all categories.

To generate the 2,000 questions contained in the Book of Challenges, which is central to the *Quest* game, Dr. Nelson recruited a dozen individuals, mostly students, to whom he paid \$1.00 for each usable question based on his models. Over a period of eight months, about 6,000 questions were generated, leaving Dr. Nelson with the task of weeding through them, editing them and discarding any that were in any way ambiguous.

"It took a lot more from me than I thought it would," says Dr. Nelson, reflecting on his involvement. Still, he enjoyed it. And if the game prospers he will share in the profits—he contributed on a "sweat equity" basis, receiving shares in the company created to market the game in return for his labors.

The play in *Quest of the Philosopher's Stone* revolves around a central mystery. To solve that mystery, con-

testants ("Questionians" in the jargon of the game) collect clues as they overcome the challenges encountered in a figurative journey through the legendary territories of Camelot, Stonehenge, Ancient Egypt, and Atlantis—respectively identified with the realms of fire, earth, air and water.

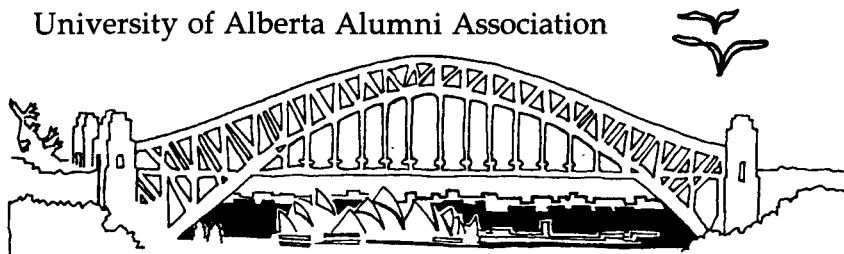
For assistance in providing background to the legendary basis of the game, the *Quest* people turned to Lyle Weis, a sessional instructor in the department of English. Dr. Weis edited the written material used in the game and wrote its 20-page background history, an interesting summary of fact and legend either central to Camelot, Egypt, Stonehenge, or Atlantis or in some way related to their mythology.

Dr. Weis says that he enjoyed working with inventor Haynes and others involved in marketing the game (that includes a number of U of A alumni). He says that he found it stimulating to be involved with people with a day-to-day involvement in the business world. They were, he says, "different in some very attractive ways" from the people of his everyday experience.

Dr. Weis's involvement with *Quest* has not ended. He is now planning a novel based on the game.<

1987 Discovery Adventures

University of Alberta Alumni Association



SOUTH PACIFIC AIR/SEA CRUISE

\$5,178/Edmonton*

January 15 to 31, 1987

Discover the romance of the South Pacific when you fly away over the horizon to the fabulous lands Down Under and cruise the peaceful warm waters of the South Pacific Ocean. You will see the best of New Zealand, Tasmania and Australia, spending 12 nights aboard the Royal Viking Star and two nights in exciting Sydney. Experience convenience, comfort and luxury in your own floating resort.

CHINA/YANGTZE RIVER ADVENTURE

\$5,799/Los Angeles*

May or June, 1987 (exact dates to be confirmed)

Discover the wonders of China old and new while enjoying the greatest convenience and comfort available. Explore some of the most famous spots in the Peoples' Republic: Shanghai, Xian, Beijing, and Chongqing. Marvel at life-sized Terra Cotta warriors, the magnificent Temple of Heaven, the Great Wall, Ming Tombs, the historical Forbidden City, and much more. Included is an unforgettable three-night cruise along the famous Yangtze River, and the tour ends with another three nights in bustling Hong Kong, a China all its own.

JOURNEY OF THE CZARS

\$4,059/Toronto*

June 11 to 26, 1987

Discover an easy and comfortable way to experience the Soviet Union, visiting the giant nation's great cosmopolitan cities as well as the Russian countryside. You will spend two nights in sprawling and imposing Moscow, three nights in historic Lenin-grad, and ten nights aboard the modern and comfortable *M/S Alexandr Pushkin*, cruising the legendary Don and Volga Rivers. See St. Basil's, the Kremlin, the opulent Winter Palace of the Czars, the Hermitage Museum, Lenin's birthplace, and much more.

SCANDINAVIAN FJORDS ADVENTURE

\$4,029/Toronto*

July 8 to 21, 1987

Discover the spectacular Norwegian Fjord Country from both the land and the sea as you enjoy a 14-day holiday to the best of Scandinavia. Your holiday will include relaxed visits to Stockholm in Sweden; Bergen, Stalheim and Oslo in Norway; and Copenhagen, Denmark. Medieval towns, stately palaces, beautiful gardens, tiny fishing villages, lakelands, woods and moors—and, of course, the spectacular and dramatic fjords—you will see them all.

BURGUNDY AND THE SWISS ALPS

Price to be announced.

August 16 to September 3, 1987

Discover the heart of France on a dream holiday that begins and ends in scenic Switzerland. The highlight of the trip is the intimate experience of France provided by a luxurious seven-day and six-night cruise on the River Saône, which flows from the highlands of Lorraine and Burgundy to join the Rhône in its journey to the sea. Your floating hotel on the Saône is the ultra-modern and beautifully-appointed *MS Arlène*. You will also enjoy three nights in historic Lucerne and two nights in Lausanne, beautifully situated on the shore of Lake Geneva.

SINGAPORE, BALI, HONG KONG

\$3,885/Los Angeles*

November 5 to 19, 1987

Discover faraway places with strange sounding names on a 14-day journey to Southeast Asia. The journey begins in the island nation of Singapore: multinational, spotlessly clean, colorful, prosperous, and virtually astride the equator. Next is Bali, everyone's fantasy island, with its fascinating blend of Hinduism and animism, its beautiful people, and its stunning tropical landscapes. The climax of the journey is Hong Kong and its spectacular harbor. See why it is said, "If it's made you can buy it in Hong Kong; if it isn't, they'll make it for you."

For more information about the 1987 Discovery Adventures, please contact the Office of Alumni Affairs, (403) 432-3224.

* Prices shown are per person (based on two sharing) from the gateway city indicated.

Official Status

THE LIBRARY SCIENCE ALUMNI Association, which held its first meeting in June of 1985, now has official status as a constituent association of the University of Alberta Alumni Association.

During the organizational period of the new association, a constitution was drawn up and ratified by the members at their first annual general meeting in Jasper on May 2, 1986. Also at the Jasper meeting, Hazel Fry, '73 BLS, area head of the Environment-Science-Technology Library at the University of Calgary, was elected as the first president. Other executive members are: Jeannine Green, '80 MLS, vice-president; Jan Roseneder, '69 BLS, treasurer; Sharon Nelson, '76 BLS, secretary; and Sandra Mikalonis, '80 MLS, past-president.

A newsletter, which includes a membership application form, has been sent out to all Library Science alumni and the dues received from this mailing will go toward association programs such as scholarships.

Remembering

The Library Trust Fund was inaugurated by Myer and Barbara Horowitz as an imaginative way of recognizing special occasions and at the same time contributing to a worthwhile cause.

A donation to the Library Trust Fund helps purchase the kind of books (often fine printing from private presses) that support the Library's major collections but that are difficult to fund from regular sources.

Anyone who would like to commemorate or celebrate an occasion—an achievement of their own or someone else's, a retirement, a birth, a death—may make a donation to the Fund. That special occasion is then marked through purchase of a book, which is identified with a bookplate inscribed as the donor wishes. Where possible, the Library also informs the person being honored.

The Library benefits doubly from donations to the Fund, since they are matched by the Alberta government.



Through the Fence
Watercolor/25 x 37.5 cm



Not Shy I
Watercolor/15 x 18.5 cm

Sylvia Blashko, '79 BEd, '83 BFA, '85 MVA,

is a native Albertan who has had a lifelong interest in art. In addition to her U of A coursework, she has studied art at New York University and the University of British Columbia.

She has always painted a form of landscape and most of her work reflects her formal interest in the juxtaposition of organic forms—natural growing material—with mechanical shapes. Often this involves cloud or plant forms against a mechanical grid.

In her smaller works, Ms. Blashko enjoys working with saturated jewel-tone colors for a vivid effect. Her work is included in a number of private and public collections, including that of Alberta Culture, and she has painted a variety of private commissions. Ms. Blashko is represented by the Front Gallery, Edmonton.

ANCIENT WISDOM MEETS

High blood pressure has plagued man since the arrival of taxes, tornadoes and children. Five hundred years ago in China, a man experiencing flushed cheeks and dizziness would drink a cup of herb tea, confident in its restorative abilities. In 1986, his descendent faced with the same symptoms might turn to the same tea or visit his physician who, diagnosing hypertension, might prescribe one of the herbs in the tea to be taken as a pill or by injection.

Through research being conducted by Dr. Peter Pang and others, these time-proven remedies for high blood pressure may soon be better understood and available to Canadians. Dr. Pang is the new chairman of the department of physiology at the University of Alberta. He came to Edmonton in January from Texas, where he was associated with the department of pharmacology and therapeutics at the Texas Tech University Health Sciences Centre.

On one hand, the new physiology department chairman is a graduate of Yale known for his work in comparative endocrinology and the pharmacology of parathyroid hormone. On the other hand, he is a native of Hong Kong who keeps a bottle of herbal Yinchiao tablets in his office to fight flu and colds. Acquainted with both Chinese traditional medicine and Western high tech research, Dr. Pang is bringing the two together in a joint Canadian-Chinese research program investigating the basic science of Chinese herbs that have been successfully used to treat high blood pressure.

Scientists at Jinan University in The People's Republic of China provide Dr. Pang with the herbs and the current literature on their clinical use. Dr. Pang then conducts the studies necessary to determine the pharmacology of the herbs and trains the Chinese scientists in modern research techniques. He currently has two scientists from the People's Republic in his lab and is expecting another one soon. (At the same time, an Alberta medical student is in China getting an introduction to acupuncture.)

"Before contact with the Western world, herbal medicine was the exclusive means of treating disease in China," explains Dr. Pang. "This traditional form of therapeutics has been maintained for thousands of years and is still used extensively in China. . . . Presently, millions of people are treated daily with herbal medicine and the evidence for the clinical effectiveness of these agents is abundant. However, in most cases, the exact chemical nature of the active substance is obscure and the pharmacology, especially the mechanism of action, is largely unknown."

Dr. Pang stresses that Chinese herbal medicine is no longer simply traditional folk medicine. Clinical use of herbs has been incorporated into the medical profession for 30 years. Though researchers from China and the outside world have collaborated on studies of herbal cancer medicine and contraceptives, there has been very little work on

the many Chinese herbs known to relieve elevated blood pressure. Dr. Pang's task is to purify and synthesize the active ingredients so their pharmacology and clinical effectiveness can be determined. "Such an approach, when completed, will be acceptable to the scientific world, and hopefully new therapeutic antihypertensive agents will be identified," he says. The Alberta Heritage Foundation for Medical Research has given Dr. Pang a \$750,000 establishment grant to set up his research program, which includes other studies of antihypertensive agents and basic investigations of vasodilatory peptides.

In addition to being clinically effective, the Chinese herbs have an important advantage over the drugs commonly used in the West to treat hypertension: the herbs usually have no serious side effects. Dr. Renhua Zhang, vice dean of the medical school at Jinan University and head of the Chinese half of the project, explains why. "The herbal medicines often act directly upon the blood vessels and do not affect the nervous system, so there are no serious side effects." Any herbs that might have produced side effects have long since been discarded over the long history of herbal medicine.

Zhang uses three basic approaches in selecting the herbs for study at the University of Alberta. Some are chosen because they have been purified and studied to some extent, while others are chosen because experience has shown them to be very effective though very little is known about them. Lastly, Dr. Zhang and his colleagues are going into the country to look for herbs which villagers may have used for thousands of years but are unknown to the medical establishment in the cities.

This research is a continuation of collaboration between Drs. Zhang and Pang begun while the latter was at Texas Tech. During the last two years, 50 herbs were screened and two are very promising. However, Dr. Pang is reluctant to say very much about them until his preliminary findings have been published and subjected to the scrutiny of other scientists.

Jinan University is able to take particular advantage of international collaboration because it is the only medical school in China under the administration of a board of governors, rather than under the control of the central government as at other universities in the country. Though Jinan University itself is 80 years old, the medical school is only eight years old, and it is the only one available to overseas students, most of whom come from the Hong Kong and Macao areas.

Both Dr. Zhang and Dr. Pang express hope that the joint venture will go beyond a mutual scientific advantage and extend the general spirit of understanding and co-operation between China and Canada.

Dr. Pang stresses that this project has the balance Chinese-Canadian projects need but often lack. "Sometimes Chinese-Western ventures start out with great en-



MEETS HIGH TECH



thusiasm, but the Chinese get discouraged because, when it comes to modern technology, the Western world seems way up there, and the Chinese seem way down there. In this project there is a balance. We have the technology China needs, and they have the source and the knowledge of herbs which we could never have. Both parties are essential to the program." ◀

The preceding article was reprinted, with slight adaptations, from the Alberta Heritage Foundation for Medical Research Newsletter by permission of its editor.

Photo left: Dr. Wang in his Basic Medical Sciences Building laboratory.

IN OCTOBER, DR. PANG TRAVELLED TO BEIJING FOR THE International Congress of Traditional Medicine. The only other Canadian representative at the Congress, which attracted delegates from the U.S.A., Europe, Australia and Asia, was University of Alberta Zoology Professor Larry Wang. Both U of A professors spoke at plenary sessions.

According to Dr. Pang, traditional medicine, long looked at askance by Western medical science, is now fast developing into a respectable area of scientific investigation. He speaks of this figuratively, portraying traditional medicine as a sleeping giant: "Already it is moving its limbs; soon it will start running."

To ensure that the University of Alberta is not left behind when that happens, Drs. Pang and Wang have founded the Oriental Herbal Medicine Program, of which Dr. Pang is director and Dr. Wang, best known for his research into hibernation, is co-director.

The October Beijing congress, which they attended, was the first major international gathering of its kind, combining traditional medicine and modern pharmacology. It was partially sponsored by pharmaceutical companies from Switzerland and Japan.

Pharmacologists will again turn their attention to traditional herbal medicine when the International Congress of Pharmacology meets in Australia next year. Dr. Pang and the president of the Chinese Pharmacology Society, Dr. Wang Zhen-Gang, have been given the responsibility for organizing that aspect of the congress.

In fact, the collaboration between the two will go beyond that, for Dr. Wang Zhen-Gang, a professor at Peking Union Medical College, has recently entered into an agreement with Dr. Pang to collaborate on herbal medicine and other research.

Dr. Pang and his colleagues at the University of Alberta have also begun collaboration with the Chinese University of Hong Kong. They will be studying the chemistry of herbal medicine with Professor Chang Hon-Mou and others at the Chinese Medicinal Material Research Centre, based there.

Association News

Branches Visited

A RECORD NUMBER OF ALUMNI BRANCHES are now functioning in Canada and that called for careful travel planning this fall to ensure university representation at their meetings.

The fall visits began at two Alberta locations. On September 17, Chancellor Tevie Miller and the first vice-president of the Alumni Association, Joe Daniel, were in attendance for a "reorganizational" meeting of the Medicine Hat branch. The meeting was initiated by Calgary Senate member June Ferguson and Medicine Hat alumnae Eileen Sissons, '47 Dip(Nu), Beth Findlay, '44 BSc(Nu), and Carol Snedden, '56 BSc(HEc), and more than 90 people attended.

The next function was a joint Senate-Alumni Association dinner in Peace River. Held in conjunction with the University Senate's annual out-of-town meeting on September 26, the dinner attracted more than 30 alumni. The featured speaker was Hal Spelliscy, executive director of the University's Development Office. Joe Daniel,

who is also a member of the Senate, represented the Alumni Association.

From Alberta it was on to Canada's east coast. On September 27, more than 35 alumni gathered in Halifax to meet Allan Warrack, the University's vice-president (administration), and to visit with Alumni Association President Ken Christensen. The next meeting was the first branch function ever held in St. John's, Newfoundland. Although there are only 114 alumni living on the entire island, more than 60 individuals attended the September 29 inaugural meeting at which the president of the U of A, Myer Horowitz, spoke.

Visits were also made to Ottawa on October 1 and London, Ontario on October 2. Chancellor Miller was the featured speaker at both locations, and Second Vice-President Barbara Kozoriz brought greetings from the Association. The Ottawa meeting attracted 75 people, and the inaugural London function, organized by alumna Eileen Gillese, '77 BComm, had 40 persons in attendance.

Later in October, branch functions

were held in Saskatoon, Winnipeg and Toronto. At the Saskatoon meeting, held to inaugurate a branch in that city, greetings from the University were brought by President Horowitz and Association Vice-President Daniel. John Schlosser, chairman of the University's Board of Governors, spoke in both Winnipeg and Toronto.

Contributions Recognized

DURING HOMECOMING 86, THE ALUMNI Association awarded two scholarships which recognize students who have contributed significantly to campus life while maintaining satisfactory academic standing.

The Maimie S. Simpson Memorial Scholarship keeps alive the memory of Miss Simpson, dean of women at the University from 1950 to 1960. This year it went to Jane Kellock, a graduate student pursuing a master's degree in exercise physiology. Jane, whose parents are both U of A alumni, graduated from the University in 1983 with a BA degree and went on to earn a BPE degree two years later.

An active member of the Kappa Alpha Theta Fraternity, Jane has done volunteer work for the Heart Foundation, the Red Cross and Ronald McDonald House. In addition, she has been a member of the U of A swim team, competed on the junior volleyball team and donned the identity (along with the bearskin suit) of the University's mascot, GUBA, at numerous events. She has also found time to serve as the chairperson for the Health Week committee and to teach fitness classes.

Stacy Sielski was the recipient of the scholarship which the Alumni Association established in 1982 in recognition of the University's 75th anniversary. A fourth-year science student, she has truly made a positive contribution to campus life through her involvement in the Lister Hall Students' Association, and as the Students' Union's housing and transport commissioner. She has also served on the external affairs board of the Students' Union, the University's facili-

In Memoriam

The Alumni Association extends its condolences to the families and friends of the following:

ROBERT ADAIR McNAUGHT '20 BA
August 1986/Edmonton
JOHN ABNER MATHESON '26 BA, '28 LLB
January 1986
WILLIAM PHILIP WAGNER '31 BA, '42
BEd, '51 MEd, '82 LLD(Honorary)
August 1986
RUTH BERNICE PREVEY '31 BSc(HEc) July
1986
FINLAY WILLIAM SIMONS '31 BSc(Eng),
'33 MSc August 1986
HORACE MASON BOLES '35 BSc(Eng) July
1986
GLADYS BASARAB (NORDTORP) '35
Dip(Ed), '48 BEd
PHYLLIS MAY TAYLOR (BREWSTER) '36
BSc(Pharm) February 1986
CAMBY CARMAN GILLESPIE '36 BSc(Ag)
February 1986
WILLIAM ELMER ADKINS '37 BSc(Eng)
October 1985
LAVAL J. FORTIER '41 LLB November
1985/Edmonton
BRUCE IRVING RANKIN '41 BComm, '83
LLD(Honorary) Aurora, Ontario
STUART SOMERVILLE PURVIS '42 BA, '43
LLB September 1986
STANLEY GORDON DEANE '44 BSc, '49
BEd, '57 MEd August 1986/Edmonton

HUBERT WILLIAM HARRIES '45 BSc(Ag)
August 1986/Langley, B.C.
JAMES HAROLD MANNING '45 BSc
August 1986/Calgary
ROBERT M. RUSSELL '46 BSc(Ag) October
1985
HELEN RODNEY (McGREGOR) '49 BA July
1986
DONALD HAINES BOWEN '49 BA, '50 LLB
September 1986
WILLIAM DONALD KYLE '49 BSc, '51 MD
August 1986/Edmonton
WLADYSLAW JOSEF SWINIARSKI '49 BA
November 1985
HALLIE EDWARD FYCKES '50 BSc July
1985
ADDISON RONALD PARKER '50 BSc(Ag)
June 1986
JAMES LAWRENCE CARVETH '50
BSc(Eng), '53 MSc June 1986
THOMAS McLAUGHLIN CHELL '59
BSc(Eng) May 1986
ROBERT GEOFFREY COLLIER '61 DDS
1986/Kamloops, B.C.
RUTH MARION LOGAN (HILL) '63 BEd
1985
RONALD ROBERT J. DEROUIN '64
BSc(Eng) January 1986
NANCY LeCLAIRE '75 BEd May 1986
RHYS LECKIE HUGHES '78 BSc, July 1986
TIMOTHY LEE CANTELON '79 BEd, '81
Dip(Ed) May 1985
CHRYSTAL PATRICIA BOOTH (YOUNG) '80
BEd June 1986



ABOVE Homecoming Winners: Scholarship recipients Sielski (left) and Kellock; Jubilee Award Winner Baldwin and Alumni President Christensen; Marg Harcus with the lithograph won by her husband.

CENTRE TOP Reunited: the Civil Engineers of 1961.

RIGHT It was fun: President Horowitz with Jean Porteous (Bulyea), '30 BSc(HEc).

ABOVE Welcome Back: Alumni Director Susan Peirce chats with Bertha Lawrence '21 BA; Genevieve Jewitt (Jackson), '21 BA, dances with her son Bill Jewitt, '49 BSc(Eng); Ray Pratt, '36 MD, of Rhode Island, shares a memory.

ties development committee, and the advisory committee on alcohol awareness established by the Council on Student Services.

Memories Recalled, Created

"SEEING THOSE LADIES MAKES ME FEEL 20 years younger!" That comment was overheard during Homecoming 86 when three women from the class of 1921 were honored on the occasion of their 65th anniversary of graduation. The remark was made by a graduate who was *only* celebrating anniversary number 50!

Homecoming 86 began on Friday, September 19 when more than 200 returning graduates crowded into the Stollery Centre on campus to exchange greetings, some for the first

time in a year, some for the first time in 50 years. During the evening a draw was made for a lithograph of a campus scene. It was won by John Harcus, '51 BSc(Ag).

The next day was filled with activity: coffee and cinnamon buns in Athabasca Hall; tours of the campus and the campus museums; an open house at the Mackenzie Health Sciences Centre; the first annual Alberta Shrine Bowl Classic football game; and more.

At lunch, alumni heard from David Oginski, the 1986-87 Students' Union president. After lunch, two draws were made and Isobel Smith, '35 BA, and Jim Barton, '46 BSc(Eng), are having their degree certificates replicated in brass, courtesy of Expressions in Brass.

On Saturday evening, about 400 persons attended the Dinner and Dance at the Edmonton Convention

Centre. During the ceremonies, Chancellor Tevie Miller gave a toast to the 1961 Silver Class, President Myer Horowitz honored the 1936 Golden Class, and Board of Governors Chairman John Schlosser proposed a toast to the Diamond Class of 1926. A special moment occurred when President Horowitz individually recognized Genevieve Jewitt (Jackson), Bertha Lawrence, and Jeanette Wilson (McIntosh), all BA graduates from the class of 1921.

Responding to the toasts were Dr. Alex McCalla, BSc(Ag), of the Class of 1961; Allan McTavish, BComm, of the Class of 1936; and Frank Newson, LLB, of the 1926 class.

Also on the program was the awarding of the Maimie S. Simpson Memorial Scholarship to Jane Kellock, a graduate student studying exercise physiology, and the 75th Anniversary

VICTORIA

Thursday
December 4, 1986.

Pre-Christmas Cocktail Reception

5:00 p.m. to 7:00 p.m.

Government House
1401 Rockland Avenue

No Charge

Cocktails, coffee, tea, and light refreshments will be served. Come meet old friends and make new acquaintances in the lovely setting of Government House.



Saturday,
February 21, 1987

Theatre Party

2:00 p.m. Matinee

Phoenix Theatre
University of Victoria

\$5.00 / Person

Includes refreshments served in the lobby following the performance.

For Reservations:

Call the box office commencing February 9 and state that you are a U of A alumnus.

Parking

Available **free** in the unreserved section of Lot 6 (via Gordon Head Road or Ring Road). Consult your newsletter for further details.

MARYLAND, VIRGINIA & WASHINGTON, D.C.

Sunday,
April 26, 1987.

All-Canada University Alumni Reception

Hosted by
University of Alberta

Guest Speaker:
Dr. Myer Horowitz
President, University of Alberta

Watch for further details in the next issue of New Trail and in your mail.

Scholarship to Stacy Sielski, a fourth-year science student. The final award of the evening was the prestigious Alumni Golden Jubilee Award, presented to Dr. George Baldwin.

Another winner that evening was Michael Carlson, who won a trip for two to San Francisco courtesy of Air Canada. A fourth-year Arts student, he had escorted scholarship-winner Sielski.

The weekend wrapped up on Sunday as members of the Diamond and Golden classes attended a brunch hosted by Dr. and Mrs. Horowitz, and other alumni participated in a golf tournament organized by Campus Recreation.

Special thanks go to the Kappa Alpha Theta Fraternity, the Circle K Club and Student Orientation Services for assistance provided during Homecoming.

Award Presented

GEORGE BALDWIN, WHO SERVED THE University for 34 years, is the 1986 recipient of the Alumni Golden Jubilee Award, the highest honor bestowed by the Association.

Dr. Baldwin first came to U of A in 1951 as a lecturer and his 1967 appointment to the chair of the department of English signalled the beginning of a career in administration that was to last 17 years—a period characterized by booming University growth, massive academic expansion and growing public awareness. He served as dean of the Faculty of Arts from 1972 until his five-year appointment as vice-president (academic), begun in 1979.

After a year's leave, Dr. Baldwin chose to take early retirement. He is now living in Vancouver and using his newly-acquired computing skills to research a genealogy project for the city of Vancouver.

Medical Alumni Meet

AT THE ANNUAL MEETING OF THE Medical Alumni Association, held in Edmonton on September 25 in con-

junction with the Alberta Medical Association Convention, a new MAA executive was selected for the 1986-87 term. The president is R. E. Pow of Calgary. Frank Haley of Edmonton is past-president; A. R. Backstrom of Edmonton is vice-president; and Gerry McDougall of Calgary and Walter Yakimets, Rex Boake and Adrian Jones, all of Edmonton, are committee members. Alumni Affairs Director Susan Peirce remains as executive secretary.

More than 160 individuals attended the MAA dinner at which graduates from the classes of '36, '46, and '61 were honored. The class of '56 also held their reunion in conjunction, and a highlight of the evening was the awarding of the MAA outstanding achievement award to Hector E. Duggan of Calgary.

Dr. Duggan graduated with an MD from the University in 1938 and after wartime service taught at the U of A until he moved to Calgary in 1965. His career has been filled with "firsts."

He helped open the first radioisotope laboratory in Alberta, he initiated the first residency program in diagnostic radiology at University Hospital, and he became the first full professor of radiology and head of the department at the U of A. In Calgary, he began the School of X-Ray Technology and organized the first radioisotope laboratory there, he also organized and developed the first training program for nuclear medicine technologists in Alberta. Later, he became the first professor and head of the division of diagnostic radiology at the University of Calgary.

DAA Meeting Held

THIS PAST SUMMER, THE ALBERTA DENTAL Association eschewed the amenities offered by the larger urban areas and took advantage of the natural attributes of the Cold Lake-Grande Centre area of Alberta for its annual convention. There, too, the Dental Alumni Association annual meeting was held.

As part of the DAA-sponsored President's Dinner, the dental graduates of 1961, 1946 and 1936 were honored. Another memorable event was the

awarding of a special plaque to Philip J. Kendal, '36 DDS, the only surviving member of the golden anniversary class. It recognized his work in organizing the DAA and serving as its first president in 1949.

Another highlight of the evening was the awarding of the DAA Outstanding Achievement Award to Brigadier-General James N. Wright, '56 DDS, who became a certified periodontics specialist and received a master's degree in oral pathology from the University of Toronto.

He began full-time military service after his graduation from the U of A and in 1982 was appointed director general of dental services for the Canadian Forces at the National Defence Headquarters in Ottawa. In September of this year, Dr. Wright left military service to accept the position of head of the department of stomatology in the Faculty of Dentistry, University of Manitoba.

Plan Reunions Now!

IF YOU'RE PLANNING TO ORGANIZE A reunion for Homecoming '87, now is the time to start.

Homecoming '87 will be held on the weekend of September 25 to 27, 1987, and the Alumni Affairs Office offers assistance to any class organizing a reunion.

The Office is pleased to provide address listings of class members and will assist with mailings regarding reunion activities. Contact the Office of Alumni Affairs for further information. <

LONDON, ENGLAND

A reception will be held at some time in May, 1987 for all graduates living in England.

Watch for further details in the next issue of New Trail and in your mail.

Income Protection: Questions and Answers

Statistics show that a person 30 years old has a 70 per cent chance of becoming disabled before reaching age 65. It is a sobering thought.

Accidents or illness can happen without warning, and the loss of a regular salary could become an unfortunate reality. When a wage earner is unable to work and generate income, continuing expenses for such things as accommodation, food and clothing can rapidly eat up savings.

This year the University of Alberta Alumni Association endorsed an Income Protection Plan, managed by North American Life, which offers alumni an economical way to provide protection against the financial effects of long-term disability. While many companies include such protection in their benefit package for employees, alumni who work for an organization that does not provide this benefit, or are self employed, can face severe financial hardship when a disabling accident or illness occurs.

Here are some frequently asked questions and answers to help explain the plan.

What is income protection insurance and how does it work?

If you become disabled as a result of an accident or illness at home or at work and cannot work at your regular occupation, income protection insurance will provide you with monthly payments in accordance with the amount of coverage you have chosen.

How much insurance do I need?

The amount of income protection insurance you need depends on a number of factors such as your current income, how long you could manage on your savings, whether you have another source of income, the number of people who depend on you, and what financial obligations (such as mortgages and loans) you have.

How much could I get each month with the Alumni Association plan?

That would depend on your income and on how much coverage you choose. Insurance is available in "units" of \$100 up to a maximum of \$3,500 per month. To ensure that you aren't paying for more coverage than you need, there is a formula on the application form to help you calculate your maximum.

How long would I have to wait for benefits to start?

You can choose from three different waiting periods—30 days, 120 days or 180 days—with premiums adjusted accordingly. If your employer provides short-term coverage, you can opt for a longer waiting period. The longer the waiting period, the lower the premiums.

If I became disabled how long would benefits continue?

Benefits are payable up to age 65, as long as you are disabled and cannot work.

Are the benefits taxable?

Benefit payments are tax free as long as you have paid the entire premium. However, if the premium is paid in part or in whole by your employer or by a partnership, the benefits may be taxable.

If I change employers, can I continue my income protection insurance?

Yes the program is portable, so it moves with you if you change jobs.

Who can join the plan?

All alumni of the University of Alberta who are under age 61 and resident in Canada are eligible to apply for this coverage. You must also be gainfully employed at the time of application, and have an average monthly earned income of \$1,000 or more on a continuous basis.

My occupation could be considered hazardous. Can I get disability insurance?

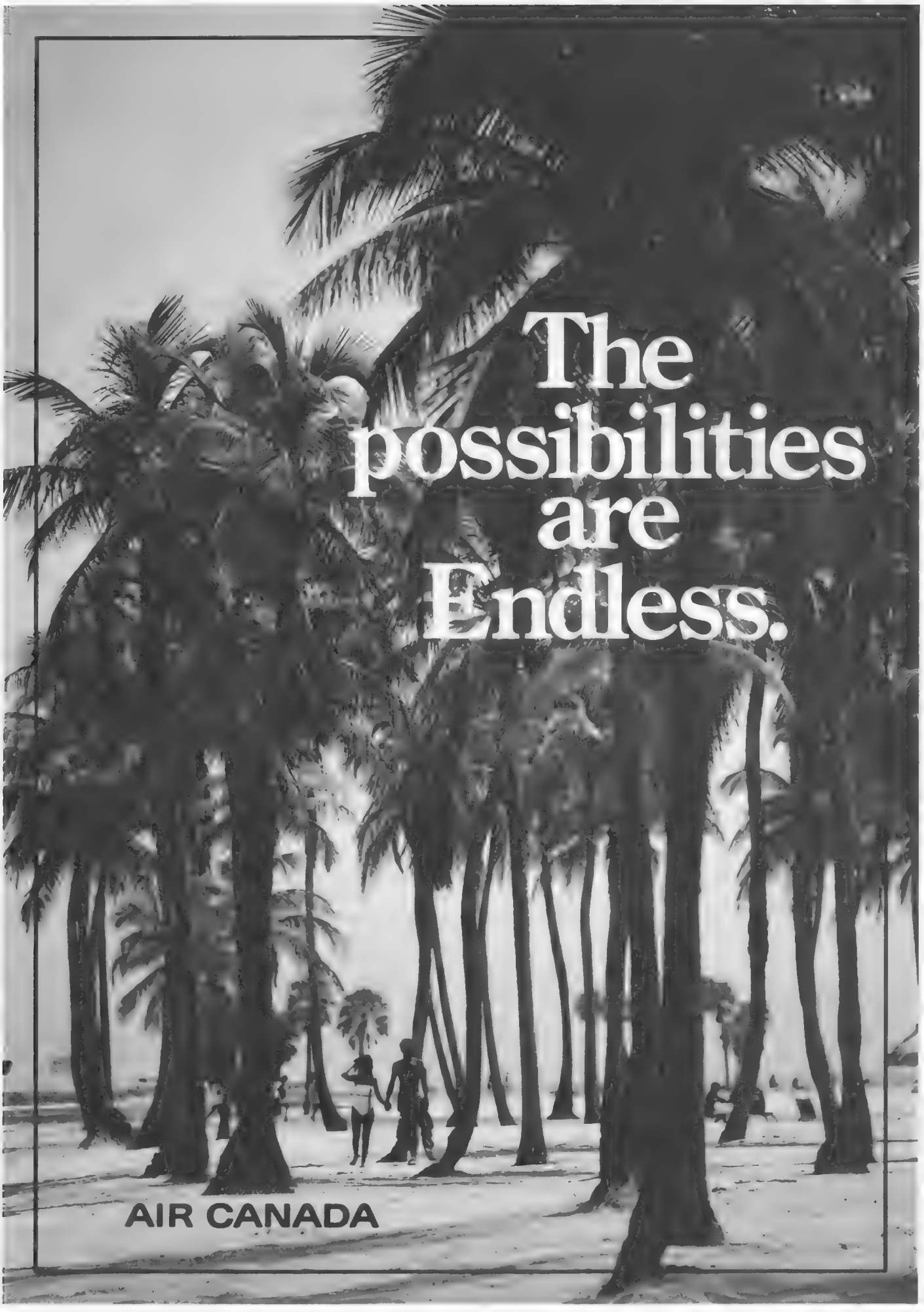
If you work at a hazardous occupation, your application will be given individual consideration to determine whether group rates can be offered.

Does the plan include payments for partial disability?

Yes, providing partial disability immediately follows a period during which you received total disability benefits. Partial disability insurance is payable for up to six months at 50 per cent of your monthly income payment.

For more information on how your Association plan can help protect your income, call North American Life TOLL FREE at 1-800-268-6687, or contact your North American Life representative.

Don't forget that North American Life also offers an excellent life insurance plan for U of A alumni.



The
possibilities
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Endless.

AIR CANADA

QUESTIONS OF KNOWLEDGE

Investigations in the Field of Artificial Intelligence

Outside Renée Elio's door, someone has tacked a bumper sticker to the wall. The sticker proclaims the coming-of-age of a new area of scientific research. "Artificial Intelligence—it's for real," it says.

As she explains her work, Dr. Elio gives an added meaning to the message of the sticker. Artificial intelligence, she says, is really about knowledge and intelligence in general—in that respect there's nothing artificial about it. Then she adds: "But that's my bias." While others may choose to look at "artificial" or "machine intelligence" in complete isolation from the human cognitive processes, to her this field of investigation is intimately interwoven with questions about the way knowledge underlies the abilities we associate with intelligence in people: problem solving, language understanding, learning, planning, and reasoning—to name but a few.

Dr. Elio is an assistant professor in the University's department of computing science. Her research interests are in the related areas of artificial intelligence, expert systems, human information processing and user-system interfaces. A native of Connecticut with degrees from Smith College in Massachusetts and Carnegie Mellon University in Pittsburgh, she brings a diverse background to her teaching and research. Her first degree was in cognitive psychology, and before coming to the University she spent two and a half years at the Alberta Research Council where she developed an artificial intelligence system for predicting hailstorms (an example of a so-called expert system).

Dr. Elio's research can be divided into two broad areas. The first involves knowledge representation associated with expert systems—systems which attempt to mimic the thinking of human experts to provide "intelligent consultants" to address real-world problems. In particular, she is interested in how best to represent and use causal knowledge—understanding of how elements in complex devices, systems or processes work. (If your car fails to start when you turn the key, you don't get out and check the air in the tires—that's causal knowledge.) More facts may mean a smarter expert system, she says, but issues of organization and control are of extreme importance. "If a system is given a large amount of information, how is it best organized and deployed?" is the question she asks.

Dr. Elio's other broad interest is in machine learning and the mechanisms underlying the learning process. This involves two approaches: simulations of human learning using data from actual experiments related to human learning; and the methodology of getting machines to learn independently of how humans learn. Teaching machines how to learn requires a good understanding of how knowledge is represented, she says. A crucial goal in the science of artificial intelligence is, then, knowledge representation: how to acquire, modify and use knowledge to solve problems.

In contrast to a data base, a knowledge base, explains Dr. Elio, is a collection not only of facts but also of relation-

ships among facts and mechanisms which operate on those relationships to draw inferences. The possession of knowledge—as opposed to data—implies that while every fact is not always available, there are processes and mechanisms which allow inferences leading to new facts. A knowledge



Dr. Elio in discussion with one of her research assistants. Their work has been assisted by a Xerox of Canada donation.

base can be structured in many ways, she says. "One way would be by semantic relationships, that is, different associations among the same set of facts. By "semantic relationships" she means relationships that carry some meaning, allowing inferences to be made. She gives an example: "We know that canaries are birds and there could be lots of facts stored about birds, some of which will be true of canaries. Once we know we are dealing with birds, we know that there are a number of things that can be labelled as 'valid' and 'invalid' assertions about birds and, thus, canaries. Knowing Tweety is a canary, we can infer Tweety is yellow. We also might infer that Tweety does not talk—but that's a risky assumption here since Tweety, it turns out, is a cartoon character."

Dr. Elio also points out that a knowledge-based system will contain expectations, things to be anticipated based on

items of information. For example, when we ask someone, "Do you know the time?" we don't expect "Yes" for an answer. "The ability for systems to understand what is left unsaid is an important research topic in building natural language systems and intelligent user-system interfaces," says Dr. Elio.

She goes on to add that knowledge bases don't replace data bases but are used for reasoning from information on hand. "Sometimes," she points out, "this involves recovery from wrong inferences, as we can." This recovery process represents a major research goal in the treatment of what is referred to as non-monotonic logic. In systems based on conventional monotonic logic, the number of facts known to be true strictly increases over time—a new fact can never cause an old fact to become invalid. But as soon as a situation arises where assumptions are made at points along the way (for instance, we might reason, "I don't know if this statement is true, but it usually is, so make it true.") and it is later found that the assumption is wrong—making it necessary to backtrack and withdraw facts—we are dealing with non-monotonic logic.

To elaborate further, Dr. Elio invents the example of Sam the eagle. "When we first learn that Sam is an eagle, we naturally assume that he is alive. If we later discover that Sam is stuffed, many default assumptions (that Sam would fly, need food and water, and so on) are no longer true and neither are any conclusions that were based on his vitality." Default reasoning is a crucial aspect of intelligent behavior and much of what we call common sense reasoning says Dr. Elio, and the provision of means for recovery when it fails is a major task for researchers in the area of knowledge representation.

In highlighting the difference between a knowledge-based and a non-knowledge-based system, Dr. Elio draws upon her experience at the Alberta Research Council. "Determining future weather conditions could be achieved by a system which is based on a statistical model of weather forecasting, employing data tables, equations, and logic trees." That would not be a knowledge-based approach. "A knowledge-based system about weather," she explains, "tries to maintain meteorological concepts and strategies that simulate the reasoning of an expert in the field."

Dr. Elio and a graduate student are currently using the latter approach as they look at how to represent a qualitative understanding of some processes in cell biology. Through an understanding of the structure of a cell and the biological processes affecting it, the computer should be able to make reasonable predictions about "what if" situations—for instance, what if the cell were put in solution, would it burst or shrink? In many cases a person with a reasonable understanding of how a cell works can answer such questions without resort to equations—through qualitative reasoning.

The goal of the cell biology project is not really the building of a system that can make predictions (a set of equations might do that) but rather to explore issues in representing causal knowledge. "With this kind of knowledge," she says, "the system will be able to examine its knowledge about mechanisms and processes and, perhaps, reason about what assumptions might be wrong if its predictions did not match what was subsequently presented as observed data."

A common thread running through almost all of the

research in which Dr. Elio is involved is her interest in how knowledge helps us learn. In the realm of machine learning this has led to an interest in spontaneous knowledge reconstruction—how does a system know that its current organization is somehow flawed and qualitatively reorganize its knowledge? "Knowledge reorganization is a form of learning," she says and elaborates: "It is a recognition that A isn't really associated with B but rather with C. We learn these things from experience, so knowledge reorganization includes finding new associations, possibly breaking old ones, realizing that several associations should be packaged together since they're always used at the same time." The long-range goal is to discover simple general mechanisms that will allow machines to reorganize knowledge based on experience in using the knowledge.

Dr. Elio also maintains a keen interest in how humans learn. "Given a proposed theory of how we learn," she says, "one tries to build a model that will allow simulation of the supposed process on the computer, employing the mechanisms thought to be important."

One such mechanism is the process of generalization, which she explains with another example, the essential nature of a chair. "If this is the concept to be learned, we might be shown a four-legged red object followed by a four-legged blue object. From this we would generalize that chairs have four legs, but their color isn't crucial. Further information could modify the conclusions—say we were shown a three-legged chair—refining the process even further."

To test a psychological theory or model, the computer can act much like a human subject, says Dr. Elio. It is given examples, it learns, and it makes decisions based on its learning mechanisms. If the computer's performance—including the errors—matches human performance, then the model underlying its behavior may be a plausible model of human behavior for the same task.

Dr. Elio's work touches on only some of the major themes in the area of artificial intelligence, now a very wide-ranging field of investigation. Other main branches include natural language understanding, robotics and computer vision. Some of these are being pursued by other researchers in the department of computing science: Len Schubert specializes in robotics, planning and natural language understanding; Jeff Pelletier shares the interest in natural language understanding, and Tony Marsland and Jonathon Schaeffer examine issues in neuristic search, an important aspect of intelligent problem solving.

However, as diverse as the field of artificial intelligence has become, it still all boils down to a theory of knowledge, how it is acquired, organized, modified, used and retrieved, says Dr. Elio. And the potential applications are indeed real. "It will allow us to construct increasingly intelligent machines and, in doing so, to invent a theory of machine knowledge and perhaps discover something about a theory of human knowledge."◀

Artificial intelligence research at the University of Alberta has been greatly assisted by a donation of equipment from Xerox Canada. The University and Xerox split the cost of outfitting an artificial intelligence laboratory (3-65 Assiniboia Hall) with three special purpose Xerox scientific workstations (plus laser printer) that provide various software capabilities based on the programming language LISP, a widely used AI programming language.

Class Notes

'21 HELEN RAVER, BA, and her sister ANNABEL RAVER BANKS, '24 BA, '28 BSc(Nu), now share a condominium in Victoria, Helen having given up her Edmonton home. The sisters enjoy bridge, scrabble and many Edmonton friends who have moved to the coast.

'26 FRED ANTROBUS, BSc, took his first pastorate 60 years ago at Brightview, near Wetaskiwin, Alberta. Now he is chaplain in a high-rise complex. "We carry on with our main aim in life of helping people in many ways, only the specifics vary."

'29 JOSEPH P. KORCZYNSKI, Dip(Pharm), is enjoying retirement in Calgary. He operated a drug store in Turner Valley from 1930 to 1960, and then moved to Calgary, where he worked "off and on for about 20 years."

'34 JAMES MCCOUBREY, BSc, recently received an appreciation award from the Lambton County (Ontario) Lung Association.

'37 RUTH LAVENDER (POWELL), BA, has retired from teaching kindergarten after 17 years. She and her husband live in Thornhill, Ontario and are enjoying retirement—especially travelling.

'40 ROBERT H. BLACKBURN, BA, '41 MA, librarian emeritus of the University of Toronto, received an honorary doctorate in June at McGill University.

'45 DUNCAN T. BATH, BSc, is senior design engineer (hydrogenerators) for Canadian General Electric, Peterboro, Ontario. Among the spare time activities he enjoys is recreational flying.

MIKE BEVAN, BSc(Ag), went to St. Lucia in 1973 as principal of the Canadian-built Comprehensive High School. He and his wife liked it so much that they returned to build and operate Banyan Lodge Apartment Guest House for Tourists.

'48 RALPH L. CLARKE, BSc(Eng), reports that he is now retired and "Gone Fishin" in British Columbia.

'49 RONALD W. JONES, BSc(Eng), is the new president of the Alberta Construction Association.

PETER CHITRENKY, BEd, was one of the teachers honored at a retirement banquet sponsored by the Stettler Local of the Alberta Teachers Association earlier this year. A teacher in the Stettler district for 39 years, most recently he taught at the William E. Hay High School.

MICHAEL UKRAINETS, BEd, of Westlock, Alberta received an Alberta Achievement Award this year in honor of his contributions to his

community. In 1984 he was named Westlock's Volunteer of the Year.

'50 BENJAMIN G. HALBERT, BEd, of Calgary has retired from teaching. He writes that teaching is a family tradition: "Our family has taught for over 100 years in Alberta. . . My wife Alice was a teacher. My son is a superintendent in Peace River. My grandson teaches in Houston, Texas. We are proud of our profession."

ARTHUR KOWALCHUK, BSc(Eng), recently retired after 36 years in Gulf Canada's exploration/production service. Most recently he was with the frontier development group, involved with potential projects in the Arctic Islands, Beaufort, Labrador and Hibernia.

STANLEY P. OWEN, MSc, retired from the Upjohn Company, Kalamazoo, Michigan, earlier this year and moved to Federal Way, Washington (in WASHINGTON STATE, not Washington, D.C.—as was incorrectly reported in the last issue of *New Trail*) and is pursuing his interest in North American Indian culture, history and art.

MARIAN ARTHUR, Dip(Ed), who attended University as Marian J. Parker, now lives in Calgary, where she writes—poetry mostly—"with slight success as my health permits very little work." Her works have been featured on Alberta radio and television and on the Calgary stage. During her life she has fought personal battles with two terrible dis-

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eases. She became a wheelchair user after suffering polio in 1955 and was stricken with MS in 1981. "A fairly good left hand is about the only blessing that the horrendous illness (MS) has left me with. I am glad to have been able to live on my own with little help, and hope that it continues and that I can get something important published. Wish me luck."

'51 RON ROSS, BEd, '54 BComm, former business education department head at William Aberhart High School in Calgary, retired from teaching with the Calgary Board of Education at the end of June and in September began teaching English and business management to fourth year and graduate students at Nankai University in Tianjin, China.

KATHERINE A. CORNISH (STRILCHUK), Dip(Nu), is retired in Edmonton.

JAMES LAYCRAFT, LLB, chief justice of Alberta, received an honorary doctor of laws degree from the University of Calgary at that institution's 1986 spring convocation.

BERT STRAIN, BEd, retired as superintendent of schools for the Stettler, Alberta School District this year. In 1981 he was presented the Administrator of the Year award by the Alberta Teachers Association Council on School Administration.

JOHN H. PARKER, BSc(Eng), commissioner of the Northwest Territories, was recently presented with the Outstanding Achievement Award for the Public Service of Canada by the Governor General and the Prime Minister at Government House, Ottawa. The award honours public servants who have made outstanding contributions to Canada. He has also recently been appointed to the U of A Senate.

'52 PETER LOUGHEED, LLB, '51 BA, '86 LLD(Honorary), has been appointed to a number of corporate boards recently. These include the boards of directors of Princeton Developments Ltd., Brascan Limited, and the Royal Bank.

MURRAY S. MEERES, BSc(Eng), who resides in Thornhill, Ontario, retired from Esso Petroleum Canada at the end of September.

'53 ARTHUR REDDON, BSc(Ag), was recently honored as a builder of the Alberta pork industry by the Alberta Pork Congress. He is a former head of the pork industry branch of Alberta Agriculture.

CHARLES H. HANTHO, BSc(Eng), was recently appointed to the board of directors of The Wellesley Hospital, a teaching hospital affiliated with the University of Toronto. He is the



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Year/Degree _____

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chairman and chief executive officer of C-I-L Inc.

'54 VERNON NEIS, BSc(Eng), was appointed assistant dean of undergraduate programs at the University of Saskatchewan College of Engineering effective September 1.

BRUCE M. DAFOE, BSc(Eng), who joined Northwestern Utilities in 1954, has been named president of that company and of Canadian Western Utilities, the Canadian Utilities Limited subsidiaries which provide natural gas to north-central and southern Alberta respectively.

ALEXANDER J.L. FISHER, BSc(Eng), has been named senior vice-president and general manager of Canadian Western Natural Gas Company Limited.

JOHN M. WILLISHER, BSc(Eng), has been named vice-president, administration and marketing by Canadian Western Natural Gas Company Limited.

WERNER W. KLINGBEIL, BSc(Eng), is a research and development fellow at the research centre of the newly-formed Uniroyal Goodrich Tire Company, Brecksville, Ohio.

'55 ARTHUR KROEGER, BA, was named deputy minister of energy by Prime Minister Brian Mulroney in August. A former Rhodes scholar (1958), Mr. Kroeger served as deputy minister of industry before his change of department this summer.

JACK M. WIGHAM, BSc(Eng), '57 MSc, will become assistant dean of undergraduate studies at the University of Saskatchewan College of Engineering on January 1, 1987.

'56 RICHARD F. HASKAYNE, BComm, president and chief executive officer of Home Oil Company Limited of Calgary, was recently elected a director of Fording Coal Limited, a wholly-owned subsidiary of Canadian Pacific Ltd.

G.W. RICHARDS, BSc(Eng), was recently appointed vice-president, rate administration in the inter-company management group serving Alberta's largest natural gas utility companies, Canadian Western Natural Gas and Northwestern Utilities.

WILLIAM D. GRACE, BA, an Edmonton-based financial and management consultant, has been named to the board of directors of the Blue Cross Life Insurance Company of Canada, and to the Encor Energy Corporation board.

'57 NORMAN GISH, BA, was recently elected to the board of directors of Westmin Resources. The president and chief executive officer of North Canadian Oils Limited, he was previously chairman, president and chief executive officer of Turbo Resources Ltd.

SHEILA CHAPPEL, BA, received the degree of juris doctor in June from the William Mitchell College of Law in St. Paul, Minnesota.

DOUGLAS E. GUILD, BSc(Eng), has been appointed vice-president and general manager of Highland Valley Copper, Logan Lake, B.C.

'58 DENIS C. FONTEYNE, BSc, is now vice-president, marketing for Voyager Energy Company.

'59 LOU HYNDMAN, LLB, '56 BA, was recently appointed to the board of directors of TransAlta Utilities.

HUGH BOLTON, BA, partner-in-charge of the Edmonton office of Coopers & Lybrand Ltd., was given responsibility for looking after that firm's 22 Canadian offices earlier this year. In his new position he is responsible for approximately 250 Canadian partners supported by 2,100 professional and administrative staff from Victoria to St. John's. He'll be spending a great deal of time travelling, because he's elected to remain in Edmonton rather than move to Toronto or Montreal.

CRAIGHTON TWA, BSc(Eng), was named president of Alberta Power in May.

PETER KOZICKI, MSc, is now vice-president and manager, western and central regions for Franki Canada Limited, Canada's only national foundation contractor.

'60 WILLIAM A. NORDICK, BSc(Eng), is president and general manager of Waterloo Concrete Products of Ontario.

'61 IVAN MARKI, BA, is the Margaret Bundy Scott Associate Professor of English at Hamilton College in New York State.

LAWRENCE A. MYSAK, BSc, has left the mathematics department at the University of British Columbia to join the climate research group associated with the department of meteorology at McGill University. In April of this year, Dr. Mysak was elected a fellow of the Royal Society of Canada.

GORDON MUNK, BSc(Eng), has been appointed vice-president, operations by Northwestern Utilities.

JOHN W. FILDES, BSc(Eng), is now vice-president, operations for Canadian Western Natural Gas Company Limited.

'62 TERRY MORRIS, BEd, of Lethbridge has retired after a 37-year teaching career.

AWARD ESTABLISHED

The *Lesley M.R. Wiebe Humanitarian Award* has been established at the B.C. Institute of Technology in honor of the late LESLEY WIEBE (BEATTIE), '61 Dip(Nu). The award (along with interest earned by the award fund) is to be presented twice annually by the Institute's department of nursing to the two students who best personify the humanitarian qualities exhibited by Lesley Wiebe during her lifetime. Contributions to the award fund can be sent to:

**Director of Development
B.C. Institute of Technology
3700 Willingdon Avenue,
Burnaby V5G 3H2**

Make cheques payable to "BCIT—The Lesley M.R. Wiebe Fund."

'64 WILLIAM L. GRABURN, BSc(Eng), is the new vice-president and general manager, gas supply in the inter-company management group serving Northwestern Utilities Limited and Canadian Western Natural Gas Company Limited.

'65 SYLVIA COURTEAU (HITTINGER), BEd, has taught all grades except kindergarten, three and four in her 19-year teaching career. Currently she teaches grade five French immersion and one class of grade seven home economics at Holy Cross School, Edmonton. **ROBERT LOCK, BSc(Eng)**, has been appointed senior vice-president and general manager of Northwestern Utilities.

'67 TOM POWELL, BA, has joined the congregation at Third Avenue United Church, North Battleford, Saskatchewan as its minister.

LORNE KLIPPERT, MD, vice-president, medicine of Shaughnessy Hospital in Vancouver, was recently named to the board of Care Point Medical Centres Limited.

ROBERT ARMSTRONG, BSc(Eng), is now vice-president, engineering and construction for Northwestern Utilities Limited.

'68 IGNACE MIAZGA, BEd, who retired from William Hay High School in Stettler, Alberta



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this year, was one of those honored at a retirement dinner sponsored by the Stettler local of the Alberta Teachers Association.

EDWARD KOMPERDO, BSc(Eng), has been given a new position in the Luscar Ltd. organization, which operates coal mines in Alberta and Saskatchewan. He has been named general manager, Luscar Sterco (1977) Ltd.

'69 EVELYN VETSCH, BA, reports having the full-time job of housewife. She is the mother of five children ranging in ages from one year to 16.

EILEEN MERCIER (FALCONER), MA, vice-president and chief financial officer of The Pagurian Corporation Limited, has been elected to the board of Loewen, Ondaatje, McCutcheon Inc., a company which has seats on all major Canadian stock exchanges and is active internationally. She is also a director of Global Communications and of Wilfrid Laurier University.

ALEX TOD, MEd, is retired in Sydney, Australia. A native Australian he came to the University of Alberta as the recipient of the Reeves Scholarship in Australia and enrolled in the master in educational administration degree course along with students from across Canada, and from Thailand, India, and Australia. He writes that he made many good friends with his fellow students and amongst the professional staff and extends "a real Aussie 'Hello' to all the course members around the world."

ALLAN E. COX, PhD, '67 MA, recently retired after 12 years as head of the school of teacher education at Armidale College of Advanced Education in Australia. He's now busy caring for 300 new trees on an acreage overlooking the ocean in northern N.S.W. and finds time for blue-water fishing, golf and masters track and field.

ANNE M. STANG, BLS, of Calgary, is spending a sabbatical year at the University of Western Ontario.

ELOISE CORNESS (PETRIN), BPE, is teaching in the French immersion program at Greenfield elementary school in Edmonton.

KEITH R. OLSEN, BSc(Eng), of Calgary has been installed as the president of Construction Specifications Canada, a national association dedicated to the improvement of communications of technical data among all sectors of the construction industry. He is the president of K.R. Olsen Engineering Limited.

MANFRED FEHR, MSc, is a full professor of chemical engineering at Federal University, Uberlandia, Brazil and a part-time engineering consultant.

RONALD M. MASSE, BComm, is now vice-president and controller of Northwestern Utilities.

'70 MURRAY SIGLER, LLB, '69 BA, has been appointed president and chief operating officer of Pacific Western Airlines Ltd.

DOUGLAS FLYNN, BSc(Eng), is inspector of mines for the Province of British Columbia.

DAVID L. EMERSON, MA, '68 BA, has been

appointed executive vice-president and chief operating officer of Western & Pacific Bank of Canada. Previously, he was deputy finance minister for the province of British Columbia.

'71 RICHARD DAVIES, BA, '72 Dip(Ed), '79 Dip(Ed), teaches English and academic challenge seminars at Strathcona Composite High School, Edmonton. He is the co-author of several senior high English textbooks in wide use across Canada.

PHILIPPE F. LAROCHE, PhD, '68 MA, and DANIELLE D. LAROCHE, '70 MA, now live in Aix-en-Provence, France where they teach in junior high schools. He is a former head of the department of language studies at the Banff Centre. After its closure in 1978—a victim of a reduction in language programs for federal civil servants—they spent a year in Ottawa as translators for the Secretary of State before returning to France. "Since then—and because we are Canadian citizens educated in Canada—we have constantly applied for new university positions in Canada. . . but in vain!" However, their daughter Veronique—born in the University Hospital, Edmonton—is now back in Canada, attending the University of Western Ontario.

PETER H. KRENKEL, BSc(Eng), has been appointed vice-president, operations by ICG Resources Ltd.

DAVID A. LEROY, BSc(Eng), is now manager of the Vancouver and Edmonton branches of Franki Canada Ltd.

KATHERINE WILLSON, BA, '72 Dip(Ed), was recently appointed assistant professor in the mathematics and science department of the University of British Columbia Faculty of Education.

'72 DONALD MACINTYRE, BSc(Eng), is now manager of the Lethbridge office of The SNC Group, engineering consultants.

JACQUES DUBE, MEd, now resides in Manila, Republic of the Philippines, where he works as a consultant for the Asian Development Bank. He is the project manager of an educational reform at the college level (technical and vocational) for the Philippines' ministry of education, culture and sports.

KURT F. JENSEN, BLS, '69 BA, '71 MA, and MARILYN J. JENSEN (HYDE), '68 BA, are returning to a posting in Ottawa after two years in the Caribbean.

D. DARRYL SORTLAND, BSc, is a captain in the Canadian Armed Forces. A professional meteorologist by trade, he provides weather forecasting and briefing services to NATO forces in Baden-Soellingen, West Germany.

VOLKER MEIER, BEd, is principal of the elementary and junior high school in Strome, Alberta.

BARRY WINGER, BSc(Eng), has been appointed general superintendent, gas, by Texaco Canada Resources.

'73 ALEXANDER G. ROMANIUK, MD, '69 BSc, is senior medical advisor, income security programs for Health and Welfare Canada, and is

engaged in the practice of family medicine on a part-time basis.

DAVID MORRIS, PhD, '68 BSc(Eng), '70 MSc, has opened a Mercedes Benz dealership in Edmonton.

RON MACTAVISH, BA, is a manager with Prudential Assurance, Winnipeg, Manitoba.

ERNST VITOVEC, BLS, '72 BA, is the regional librarian for Transport Canada's central region library and information centre in Winnipeg, Manitoba.

LILLIAN BELTAOS, BSc, is the project manager (automation) for the York Public Libraries Network, Richmond Hill, Ontario. Having obtained her MLS degree from the University of Western Ontario, she is now enjoying combining her family (two boys and two girls) and career responsibilities.

RODNEY ZEIGLER, BA, left his post as business editor to become the business columnist at The Edmonton Journal.

DOUGLAS J. MACCREADY, PhD, has been promoted to full professor of economics at Wilfrid Laurier University, Waterloo, Ontario. He is the author of *The Canadian Public Sector* (Butterworth, 1984) and is currently under contract for two more texts.

ART BARRY, BComm, recently joined the staff at Edmonton Motors as a sales representative. GARY TOTH, BSc, is operations shift supervisor at the Canadian Meteorological Centre, Montreal.

'74 SHEILA M. ROBINSON, BEd, '78 Dip(Ed), '84 MEd, has been teaching in Edmonton since 1975. She has just returned from sabbatical leave at the University of York in England where she worked on a master's degree in linguistics.

EARL BOGOCH, MD, who practices orthopedic surgery in Toronto, received an award from the Swiss-based Association for the Study of Internal Fixation for his studies related to some effects of rheumatoid arthritis on bone.

BRUCE M. KING, BEd, '73 Dip(Ed), '71 BA, moved to Sydney, Australia in 1979 after having taught for six years in the Edmonton Public School System. He teaches in a Sydney private school and reports, "I don't miss the snow at all!"

JOHN RAMER, MEd, '68 BEd, head of the business administration department at the Northern Alberta Institute of Technology has been a member of Mennonite Publication Board since 1977; it's president since October 1985; and is slated to become the publisher at Mennonite Publishing House, Scottsdale, Pennsylvania, when the House's current chief executive officer retires in September 1987.

MICHELE FRASER, BA, and her husband have returned to Alberta after 12 years in the U.S.A., where she earned her PhD in industrial/organizational psychology and was vice-president of a major human resource consulting firm. Now residing in Calgary, she is working as an independent consultant, and she and her husband are enjoying renewing old friendships and "rediscovering the beauty of life in Alberta."

GARRY MUDRYK, BComm, has been admitted to partnership in the Grande Prairie office of the firm Pannell Kerr Forster, chartered accountants.

ANNE LEUHR (REID), BSc(HEC), is Taber, Alberta's new district home economist.

DONALD C. THOMPSON, BSc, was recently appointed manager, environmental operations and affairs by Syncrude Canada Ltd.

'75 ROBERT A. PHILP, LLB, '72 BA, and VICTOR P. LEGINSKY, BEd, '82 LLB, have recently opened a firm for the practice of law in Edmonton. Bob has most recently been counsel to the labour relations board and human rights commission for the Province of Alberta. Victor has been practicing labor relations and civil litigation with an Edmonton law firm.

NEIL SPRADO, BSc(Eng), is living and working in Edmonton.

JOHN JACKSON, PhD, is spending 1986 as senior research scholar in social and administrative studies and a visiting fellow at Corpus Christie College, Cambridge.

BRUCE P. RITTER, BA, is practicing law in Pincher Creek, Alberta as an associate with the Grant L. Jasman Professional Corporation.

G. NABI CHAUDHARY, MSc, is supervisor, transportation economics with the production and resource economics branch of Alberta Agriculture. In that position, he is responsible for a provincial research program related to the economics of agricultural transportation systems.

CURTIS ROSS, BSc(Pharm), is assistant director of pharmacy at Calgary General Hospital. DENIS M. ELLARD, BSc(Eng), is now vice-president, administration and marketing for Northwestern Utilities Limited.

WERNER O. NEUMEISTER, MBA, '70 MEng, '68 BSc(Eng), has been appointed manager, gas marketing negotiations by Amoco Canada Petroleum Company Ltd.

JOSEPH DE MORA, MHSA, has become the executive director of Kitchener-Waterloo Hospital in Ontario.

DENNIS BLUMENTHAL, BComm, has been admitted to partnership as a tax partner in the Edmonton office of Price Waterhouse.

JOHN STOTEN, MEd, '72 BEd, is the new manager of the Edmonton office of Murray Axmith Western Ltd., career transition consultants.

'76 RONALD W. LENTZ, BSc(Eng), works on Amoco's heavy oil project as a staff petroleum engineer in Elk Point, Alberta. He is the father of two, a son and a daughter.

GORDON K. ERLANDSON, BSc(Forest), has been named the public involvement coordinator for the B.C. ministry of forestry.

PETER D'AGATA, BComm, is the divisional manager, Edmonton division of Morguard Investments Limited.

GEORGE EPP, BA, and AGNES EPP (ZACHARIAS), '81 BA, of Thompson, Manitoba have begun three-year assignments with the Mennonite Central Committee. The assignments

take them to Neuweid, West Germany, where George will be working as assistant secretary for MCC Europe.

LILY MUNRO (ODDIE), PhD, '75 MSc, is the Ontario minister of citizenship and culture.

SUZANNE JOHNSON (MACLEAN), BA, began working for Air Canada in Edmonton in 1979 and transferred to San Francisco a year later. She writes that she has enjoyed several years of exciting leisure travel. Recently married, she is the mother of a daughter born this past summer. She finds the bay area so beautiful and its weather so mild that she has no intention of ever moving.

DONNA SCHNEIDER (MORLEY), BPE, is married and the mother of two girls. She lives on a ranch in southern Alberta and does substitute teaching in schools in Medicine Hat and Irvine.

LARRY DUCHESNE, BSc, is interdepartmental planning co-ordinator for the provincial department of recreation and parks.

ED BROWNE, BA(RecAdmin), and FRANCES BROWNE (SMITH), '75 BPE, live in Regina, where Ed is dean of married students and athletic director at Canadian Bible College and Theological Seminary.

LARRY SLOAN, BA, is an investment advisor with Richardson Greenshields of Canada Ltd. and resides in Red Deer, Alberta.

'77 JOHN SAVAGE, MEd, is the head of the English department at St. Joseph's Catholic High School in Grande Prairie, Alberta.

NEIL R. HUGHES, BMus, at one time a violist with the Edmonton Symphony, has joined the faculty at the University of Georgia as music cataloguer. Previously, he had spent two years in Philadelphia as assistant librarian at the Curtis Institute of Music. In June he married a fellow University of Georgia librarian whom he met while they were pursuing their MA(LS) degrees in Ann Arbor, Michigan.

RON WOODBURN, MSc, is a natural resources specialist with the South Dakota department of water and natural resources.

PHILIP KLEMKA, MD, reports that he is practicing family medicine in the west end of Edmonton and enjoying what spare time he has with his wife and infant son. An addition to the family is expected in February.

MELVYN BROTEN, BSc(Eng), and DEBBIE BROTEN (PURYCH), BA, have returned to Calgary from Winnipeg. Mel is a manager with Petro-Canada, Debbie is a homemaker, and they have two children.

'78 SUSAN MCDANIEL, PhD, is an associate professor of sociology at the University of Waterloo, where she has been since 1976. In 1981 she was awarded that University's Distinguished Teacher Award. She is the author of some 30 articles, book chapters and government reports, and frequently gives invited talks, addresses and is featured on television and radio discussing women's issues, aging, social aspects of health and the changing family. She is the author of *Canada's Aging Population* (Butterworths; 1986) and a co-author of

Social Problems Through Conflict and Order (Addison-Wesley; 1982).

CHRISTOPHER HARRISON, PhD, '73 BEd, '75 MEd, accepted a position with the Alberta Vocational Centre upon returning to Edmonton from Kenya in 1980. He is currently the Centre's dean of career programs.

MARGITA WITZKE (DOMBROWSKY), BEd, was married in 1984 and now lives in Lethbridge, Alberta.

GEOFFERY J. HODGKINSON, BMus, is now performing as a pianist with the duo *Pendulum*. The duo's fall calendar included an October recital at the University of Lethbridge and a Vancouver concert for CBC Radio's *Arts National* in November. In February the duo is to perform with the Delaware Symphony.

MARY CLIFF, BEd, '86 Dip(Ed), is currently teaching business education in Edson, Alberta.

DONNA J. HARRISON, MA, lives in Burlington, Ontario and is a training consultant for Prudential Insurance Company of America.

WESLEY M. MUDRYK, BComm, '76 BSc, has been admitted to partnership in the chartered accountancy firm of Pannell Kerr Forster in the firm's Grande Prairie office.

'79 BERNIE KREINER, BComm, became the town manager of Slave Lake, Alberta this past spring. He describes the position as "challenging," and adds: "I believe municipal government administration is an often-overlooked but very rewarding—personally vs. financially—career outlet for business skills." FIKENI E.M.K. SENKORO, MA, is senior lecturer teaching stylistics and Kiswahili-based comparative literature at the university in Dar-es-Salaam, Tanzania. He extends a warm invitation to his city with the words: "Please 'Karibuni Dar-es-Salaam.'"

GERRY SINN, BComm, received his CA certification in 1981 and is a founding partner of Galigan MacAllister Chartered Accountants and vice-president and director of taxation services of Galigan MacAllister Associates Inc. in Edmonton. He also reports being the "fatigued father of three pre-school boys."

KATHLEEN BLOMGREN, BEd, who began her teaching career in 1945, retired from active teaching earlier this year and was honored at a retirement dinner sponsored by the Stettler, Alberta local of the Alberta Teachers Association.

'80 KEVIN JENKINS, LLB, has been appointed vice-president, finance and planning of Pacific Western Airlines Corporation.

EUNICE NGOZI MOKWE, BSc, has served in the national youth corps program since her return to Nigeria. She is currently the administrator of the Mokwe Specialist Hospital which is run by her husband Dr. Marius Mokwe in Anambra State, Nigeria.

CATHY JANKUNIS, BA, started her own marketing firm in Toronto. She celebrated the firm's first anniversary in July.

CARROL PARKER, MA, obtained her post-graduate certificate in education at the University College of North Wales in Bangor and

is now in charge of the small but flourishing Spanish department at Medina High School on the Isle of Wight, G.B.

THOMAS DALY, BSc(AgEng), is one of the founders of the Strathcona Brewing Company Limited, which is brewing traditional ale in Edmonton.

TED M. WILLIAMS, BComm, reports that he has left the mosquitoes of his native Edmonton to commence employment with Collins Barrow, Chartered Accountants in Calgary.

GORDON D. VADNAIS, BComm, is a chartered accountant working for Foothills Pipe Lines (Yukon) Ltd. He, his wife, and their "five precious children" live in Calgary.

'81 ELSIE NAVIS (OLTHUIS), BEd, teaches grade three at Neerlandia, Alberta and is the co-editor of the Neerlandia community history book, *A Furrow Laid Bare*, which won the Alberta Culture regional history award for 1985.

LARRY ANTONUK, PhD, after six years in Europe (Switzerland and France) is coming home to North America with a young family to continue research in quark signatures in intermediate energy particle interactions. He'll be doing so at the U of A's Nuclear Research Centre.

ELIZABETH HART, BSc(PT), reports that she was working part-time in a pediatric centre but has gone into temporary retirement following the birth of her third son and a move to near Brockville, Ontario.

'82 KATIE TRUMPENER, BA, was recently named a student fellow at the Stanford Humanities Center. She received an MA in English from Harvard and is now working toward her PhD in comparative literature at Stanford University in California. Earlier this year, she gave a paper at a conference on film at Pace University in New York City.

BENEDICT O. ONUBOGU, MEd, completed his PhD in educational administration and planning at the University of Nigeria, Nsukka in 1985. He writes that he has retired from public/civil service and is now a pensioner, but, he reports: "Having retired but not tired, I have taken up an administrative job with a private company based at Onitsha Town in Anambra State. He recalls with delight the hospitality of Canadians and the encouragement he received from faculty, staff and classmates at the University.

BOB HOLMES, BSc(Eng), and DAN CAQUETTE, BSc(Eng), have designed and developed a prototype electronic device which promises to alter the way refineries and petrochemical plants in cold climates regulate the temperature of the heating cables used to keep pipelines at appropriate temperatures. The device has excited considerable interest and a company has been established to advance the product.

SUZANNE WOOD (BOISVERT), BA, and her husband and son live in Bonneyville, Alberta, where she works part-time as a career counsellor with Alberta Manpower, preparing and conducting job search and career planning

workshops.

'83 KEVIN KIN-VUN CHUNG, BSc, resides in Malaysia, where he is an assistant software manager for a Wang Computer distributor. He is currently developing a banking package for local use.

GLENN KOWALSKY, MD, '81 BMS, moved from Ontario to Edmonton in July, "leaving Bill 94 far behind!" He is now an Air Force flight surgeon at CFB Edmonton - Lancaster Park.

DWIGHT REDDEN, BSc(Eng), is doing civil engineering work for Alberta Power Limited, primarily working on the new Sheerness Generating Station near Hanna, Alberta.

DAVID M. BYERS, PhD, is a faculty member in the department of pediatrics and biochemistry at Dalhousie University, Halifax.

NANCY MATHESON, BPE, is now in her third year of a rehabilitation medicine (physiotherapy) program at the University.

CHERYL LYNNE KOSHMAN, BComm, has moved to Vancouver, where she continues to work for Procter and Gamble Inc. and takes full advantage of West Coast weather.

EDWIN BRAUN, BEd, having completed two years of teaching carpentry, social studies and health at the junior-senior high school in Inuvik, N.W.T., has moved with his family (now numbering six) to Fort Smith, N.W.T., where Ed will be teaching carpentry at Arctic College, Thebacha.

'84 VERNON J. CHARTER, BMus, is teaching music at the Prairie Bible Institute, Three Hills, Alberta.

MARIJAN SALOPEK, MA, '76 BA, '79 BComm, is a PhD student in history at Cambridge University in England.

BRYAN HAMMON, BSc(Ag), '82 BA, is drawing upon both his arts (languages) and agriculture backgrounds in his position as a CUSO co-operant in the northeast area of Thailand. He is part of a research team considering the causes and effects of secondary salinization of soils in the region and attempting to devise ways to prevent its spreading and to reclaim land already affected.

MUHAMMAD A. WAHAB, PhD, is working as a lecturer in applied mechanics in the department of civil and mechanical engineering at the University of Tasmania, Hobart, Australia. He writes that Hobart is one of the most beautiful cities in the southern hemisphere—"beautiful mountains, ocean, and a fairly large city"—and he extends an invitation to his Canadian friends to visit Australia. "It's a great country with friendly people."

CHERYL MIYAUCHI, BA, has received a master's degree in the history of architecture from Bryn Mawr College in Pennsylvania and has been awarded the Bryn Mawr College Research Internship at the Smithsonian Institute in Washington, D.C.

CHRIS LEFSRUD, BSc(Ag), and SUSAN LEFSRUD (PRESHING), '83 BA, spent two and a half years in Grande Prairie, Alberta, where Chris was a technical sales representative for

BASF Canada and Susan worked as the education co-ordinator at the Prairie Gallery. They have now moved to Guelph, Ontario, where Chris has begun working towards his master's degree in the department of environmental biology at the University of Guelph.

J. DOUGLAS MATHESON, MD, '76 BA, '82 BMS, is now in the second year of a residency at St. Paul's Hospital, Vancouver.

DAVID A. TETREAU, BSc, lives in Richmond, B.C. and works as a programmer/analyst for a small software house.

LANA POFFENROTH, BSc(HEc), is engaged in a one-year internship at the Cooper-Hewitt Museum, the Smithsonian's museum of design, in New York City.

WYNNE PALMER, BFA, was recently married and is working as a graphic designer/photographer at Edmonton Space Sciences Centre.

CLINT R. CRICK, BComm, has become executive director of the Electronic Industry Association of Alberta.

RANDALL J. O'CONNOR, BA, with one year of teaching at St. Michael's College School of Toronto behind him, has begun teaching at Catholic Central High School in Redford, Michigan, where he teaches freshman history (grade nine) and sophomore English (grade 10).

MARILYN J. MITCHELL, BEd, and STEPHEN G. YAKIMETS, BA, were married in July. Marilyn is registered as a supply teacher with Edmonton Public Schools and Stephen has returned to University to obtain a degree in elementary education.

MARTIN W. DUBETZ, PhD, is an assistant professor in the department of electrical and computer engineering at the University of Iowa.

KEITH HART, MLS, is working on a project for the Western Canadian Society for Horticulture. Tentatively titled *An Encyclopedia of Horticulture on the Canadian Prairies*, it will—as its working title indicates—have an encyclopedic format, with alphabetic entries covering various aspects of horticulture on the Prairies, including a number of U of A people, past and present.

RENU KHULLAR, MD, after camping across Canada from Edmonton to the Gaspé, is now settled into a family practice residency at Jewish General Hospital in Montreal and meeting the challenges of "a new city, new job, new language and occasionally a new religion." She's also finding time for café au lait and croissants.

'86 NANCY L. HARBIN, BA, and GEORGE KOCH, BA, were among 103 Canadian students who received Special MA Scholarships from the Social Sciences and Humanities Research Council this past fall.

DEBRA KUBINA, BSc, has returned to the University for a special certificate in computer science.

RANDALL KONDRUK, BEd, is employed at Sir George Simpson Protestant Junior High School in St. Albert, Alberta, where he teaches industrial arts and grade nine science.<

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